

**UPPER SANTA ANA RIVER WASH
AIR QUALITY CO HOT SPOT ANALYSIS
CALINE4 MODEL PRINTOUTS
EXISTING BASELINE CONDITIONS**

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

JOB: Upper Santa Ana River Wash
RUN: Existing-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 366. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W	
DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	2	-150	2	0	*	AG	743	9.6	.0	10.0
B. Palm Ave NBD	*	2	0	2	150	*	AG	486	6.2	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	*	AG	7	11.8	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	*	AG	89	9.1	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	*	AG	162	6.1	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	*	AG	161	11.8	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	*	AG	534	9.3	.0	10.0
H. 5th St. EBD	*	0	0	150	0	*	AG	1215	7.1	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	*	AG	36	11.8	.0	10.0
J. 5th St. WBA	*	150	5	0	5	*	AG	511	9.3	.0	10.0
K. 5th St. WBD	*	0	5	-150	5	*	AG	304	6.1	.0	10.0
L. 5th St. WBL	*	150	5	0	0	*	AG	86	11.8	.0	10.0
M. Palm Av NBAX	*	2	-750	2	-150	*	AG	750	5.7	.0	10.0
N. Palm Av NBDX	*	2	150	2	750	*	AG	486	5.7	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	*	AG	250	5.7	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	*	AG	162	5.7	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	*	AG	570	5.7	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	*	AG	1215	5.7	.0	10.0
S. 5th St. WBAX	*	750	5	150	5	*	AG	597	5.7	.0	10.0
T. 5th St. WBDX	*	-150	5	-750	5	*	AG	304	5.7	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: Existing-01 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	8	-7	1.8
2. NW	*	-12	12	1.8
3. SW	*	-12	-7	1.8
4. NE	*	8	12	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	12	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	12	1.8
9. SE mdbl	*	8	-150	1.8
10. NW mdbl	*	-12	150	1.8
11. SW mdbl	*	-12	-150	1.8
12. NE mdbl	*	8	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	12	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	12	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	8	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: Existing-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	* PRED	*	CONC/LINK							
	* BRG	* CONC	*	(PPM)							
	* (DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
	*	*	*								
1. SE	* 82.	* 2.0	*	.0	.0	.0	.0	.0	.0	.0	1.2
2. NW	* 97.	* 2.0	*	.0	.1	.0	.0	.0	.1	.0	.6
3. SW	* 83.	* 2.4	*	.3	.0	.0	.0	.0	.0	.0	1.0
4. NE	* 187.	* 2.0	*	.9	.0	.0	.0	.0	.0	.0	.4
5. ES mdbl	* 278.	* 2.0	*	.0	.0	.0	.0	.0	.0	.0	1.2
6. WN mdbl	* 96.	* 1.3	*	.0	.0	.0	.0	.0	.0	.4	.2
7. WS mdbl	* 85.	* 1.6	*	.0	.0	.0	.0	.0	.0	.7	.2
8. EN mdbl	* 261.	* 1.9	*	.0	.0	.0	.0	.0	.0	.0	.7
9. SE mdbl	* 353.	* 1.5	*	1.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	* 173.	* 1.1	*	.2	.2	.0	.2	.0	.3	.0	.0
11. SW mdbl	* 9.	* 1.0	*	.5	.0	.0	.0	.2	.0	.0	.0
12. NE mdbl	* 185.	* 1.1	*	.2	.4	.0	.0	.0	.2	.0	.0
13. ES blk	* 276.	* 1.6	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 96.	* .9	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 85.	* 1.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 264.	* 1.4	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 354.	* 1.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 174.	* .8	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 6.	* .8	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 185.	* .8	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: Existing-01 (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	Q	R	S	T
1. SE	*	.0	.4	.0	.2	.0	.0	.0	.0	.0	.2	.1	.0
2. NW	*	.0	.6	.0	.1	.0	.0	.0	.0	.0	.2	.0	.0
3. SW	*	.0	.4	.0	.2	.0	.0	.0	.0	.0	.2	.1	.0
4. NE	*	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. WS mdbl	*	.1	.1	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
8. EN mdbl	*	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.4	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.2
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0
17. SE blk	*	.0	.0	.0	.0	.7	.0	.0	.1	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.5	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: Existing-02 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	632	8.7	.0	10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	1181	6.1	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	70	11.8	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	274	8.3	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	357	5.9	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	1	11.8	.0	10.0
G. 3rd St. EBA	*	-150	-7	0	-7	* AG	147	10.9	.0	10.0
H. 3rd St. EBD	*	0	-7	150	-7	* AG	6	7.1	.0	10.0
I. 3rd St. EBL	*	-150	-5	0	0	* AG	532	12.7	.0	10.0
J. 3rd St. WBA	*	150	4	0	4	* AG	22	10.9	.0	10.0
K. 3rd St. WBD	*	0	4	-150	4	* AG	138	7.1	.0	10.0
L. 3rd St. WBL	*	150	2	0	0	* AG	4	11.8	.0	10.0
M. Palm Av NBAX	*	0	-750	0	-150	* AG	702	5.7	.0	10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	1181	5.7	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	275	5.7	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	357	5.7	.0	10.0
Q. 3rd St. EBAX	*	-750	-7	-150	-7	* AG	679	6.2	.0	10.0
R. 3rd St. EBDX	*	150	-7	750	-7	* AG	6	6.2	.0	10.0
S. 3rd St. WBAX	*	750	4	150	4	* AG	26	6.2	.0	10.0
T. 3rd St. WBDX	*	-150	4	-750	4	* AG	138	6.2	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: Existing-02 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. SE	*	7	-14	1.8
2. NW	*	-12	10	1.8
3. SW	*	-12	-14	1.8
4. NE	*	7	10	1.8
5. ES mdbl	*	150	-14	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-12	150	1.8
11. SW mdbl	*	-12	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	7	600	1.8

JOB: Upper Santa Ana River Wash
RUN: Existing-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 4

JOB: Upper Santa Ana River Wash
 RUN: Existing-02 (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	Q	R	S	T
1. SE	*	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.4	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
4. NE	*	.7	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0
5. ES mdbl	*	.2	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
6. WN mdbl	*	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.2	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.2
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	1.1	.2	.0	.0	.0	.0	.0

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

JOB: Upper Santa Ana River Wash
RUN: Existing-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	2	-150	2	0	* AG	681	9.9	.0	10.0
B. Palm Ave NBD	*	2	0	2	150	* AG	732	6.6	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	5.7	.0	10.0
D. Palm Ave SBA	*	0	150	0	0	* AG	350	8.7	.0	10.0
E. Palm Ave SBD	*	0	0	0	-150	* AG	371	6.0	.0	10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	85	11.8	.0	10.0
G. Robertso EBA	*	-150	-4	0	-4	* AG	0	6.2	.0	10.0
H. Robertso EBD	*	0	-4	150	-4	* AG	115	7.1	.0	10.0
I. Robertso EBL	*	-150	-2	0	0	* AG	0	6.2	.0	10.0
J. Robertso WBA	*	150	4	0	4	* AG	81	10.9	.0	10.0
K. Robertso WBD	*	0	4	-150	4	* AG	0	6.2	.0	10.0
L. Robertso WBL	*	150	2	0	0	* AG	21	11.8	.0	10.0
M. Palm Av NBAX	*	2	-750	2	-150	* AG	681	5.7	.0	10.0
N. Palm Av NBDX	*	2	150	2	750	* AG	732	5.7	.0	10.0
O. Palm Av SBAX	*	0	750	0	150	* AG	435	5.7	.0	10.0
P. Palm Av SBDX	*	0	-150	0	-750	* AG	371	5.7	.0	10.0
Q. Roberts EBAX	*	-750	-4	-150	-4	* AG	0	6.2	.0	10.0
R. Roberts EBDX	*	150	-4	750	-4	* AG	115	6.2	.0	10.0
S. Roberts WBAX	*	750	4	150	4	* AG	102	6.2	.0	10.0
T. Roberts WBDX	*	-150	4	-750	4	* AG	0	6.2	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: Existing-03 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	8	-10	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-10	1.8
4. NE	*	8	10	1.8
5. ES mdbl	*	150	-10	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-10	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	8	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	8	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: Existing-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		* PRED *	CONC/LINK							
	*	BRG	* CONC *	(PPM)							
RECEPTOR	*	(DEG)	* (PPM) *	A	B	C	D	E	F	G	H
	*		*								
1. SE	*	353.	* 1.6 *	.0	.6	.0	.4	.0	.1	.0	.0
2. NW	*	7.	* 1.4 *	.0	.5	.0	.5	.0	.2	.0	.0
3. SW	*	6.	* 1.4 *	.0	.5	.0	.4	.0	.2	.0	.0
4. NE	*	187.	* 1.5 *	.9	.0	.0	.0	.3	.0	.0	.0
5. ES mdbl	*	281.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.1
6. WN mdbl	*	92.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	88.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	260.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	354.	* 1.5 *	.9	.0	.0	.0	.3	.0	.0	.0
10. NW mdbl	*	174.	* 1.5 *	.1	.5	.0	.5	.0	.2	.0	.0
11. SW mdbl	*	6.	* 1.4 *	.7	.1	.0	.0	.3	.0	.0	.0
12. NE mdbl	*	186.	* 1.5 *	.1	.7	.0	.3	.0	.1	.0	.0
13. ES blk	*	276.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	91.	* .1 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	89.	* .1 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	* 1.1 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	* 1.1 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	* 1.0 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	* 1.2 *	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 4

JOB: Upper Santa Ana River Wash
 RUN: Existing-03 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
17. SE blk	*	.0	.0	.0	.0	.7	.0	.0	.3	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.6	.4	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.5	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.7	.4	.0	.0	.0	.0	.0

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

JOB: Upper Santa Ana River Wash
RUN: Existing-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	* LINK COORDINATES (M)	* EF	H	W
DESCRIPTION	* X1 Y1 X2 Y2 * TYPE VPH (G/MI)	(M)	(M)	
A. Palm Ave NBA *	0 -150 0 0 * AG 668	9.9	.0 10.0	
B. Palm Ave NBD *	0 0 0 150 * AG 681	6.3	.0 10.0	
C. Palm Ave NBL *	2 -150 0 0 * AG 0	5.7	.0 10.0	
D. Palm Ave SBA *	-4 150 -4 0 * AG 364	8.7	.0 10.0	
E. Palm Ave SBD *	-4 0 -4 -150 * AG 367	6.0	.0 10.0	
F. Palm Ave SBL *	-2 150 0 0 * AG 7	11.8	.0 10.0	
G. Cemex Ac EBA *	-150 -5 0 -5 * AG 0	6.2	.0 10.0	
H. Cemex Ac EBD *	0 -5 150 -5 * AG 10	7.1	.0 10.0	
I. Cemex Ac EBL *	-150 -2 0 0 * AG 0	6.2	.0 10.0	
J. Cemex Ac WBA *	150 7 0 7 * AG 16	10.9	.0 10.0	
K. Cemex Ac WBD *	0 7 -150 7 * AG 0	6.2	.0 10.0	
L. Cemex Ac WBL *	150 5 0 0 * AG 3	11.8	.0 10.0	
M. Palm Av NBAX *	0 -750 0 -150 * AG 668	5.7	.0 10.0	
N. Palm Av NBDX *	0 150 0 750 * AG 681	5.7	.0 10.0	
O. Palm Av SBAX *	-4 750 -4 150 * AG 371	5.7	.0 10.0	
P. Palm Av SBDX *	-4 -150 -4 -750 * AG 367	5.7	.0 10.0	
Q. Cemex A EBAX *	-750 -5 -150 -5 * AG 0	6.2	.0 10.0	
R. Cemex A EBDX *	150 -5 750 -5 * AG 10	6.2	.0 10.0	
S. Cemex A WBAX *	750 7 150 7 * AG 19	6.2	.0 10.0	
T. Cemex A WBDX *	-150 7 -750 7 * AG 0	6.2	.0 10.0	

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

JOB: Upper Santa Ana River Wash
 RUN: Existing-04 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z

1. SE	*	7	-12	1.8
2. NW	*	-10	14	1.8
3. SW	*	-10	-14	1.8
4. NE	*	7	14	1.8
5. ES mdbl	*	150	-12	1.8
6. WN mdbl	*	-150	14	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	14	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-10	150	1.8
11. SW mdbl	*	-10	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-12	1.8
14. WN blk	*	-600	14	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	14	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-10	600	1.8
19. SW blk	*	-10	-600	1.8
20. NE blk	*	7	600	1.8

JOB: Upper Santa Ana River Wash
 RUN: Existing-04 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: Existing-04 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.3	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.7	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: Existing-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Church A NBA	*	5	-150	5	0	* AG	0	5.7	.0	10.0
B. Church A NBD	*	5	0	5	150	* AG	172	6.6	.0	10.0
C. Church A NBL	*	5	-150	0	0	* AG	0	5.7	.0	10.0
D. Church A SBA	*	0	150	0	0	* AG	22	10.7	.0	10.0
E. Church A SBD	*	0	0	0	-150	* AG	0	5.7	.0	10.0
F. Church A SBL	*	-2	150	0	0	* AG	57	11.8	.0	10.0
G. 5th St. EBA	*	-150	-7	0	-7	* AG	1045	9.3	.0	10.0
H. 5th St. EBD	*	0	-7	150	-7	* AG	1102	6.1	.0	10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	66	11.8	.0	10.0
J. 5th St. WBA	*	150	4	0	4	* AG	471	8.5	.0	10.0
K. 5th St. WBD	*	0	4	-150	4	* AG	387	5.9	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	5.7	.0	10.0
M. Church NBAX	*	5	-750	5	-150	* AG	0	5.7	.0	10.0
N. Church NBDX	*	5	150	5	750	* AG	172	5.7	.0	10.0
O. Church SBAX	*	0	750	0	150	* AG	79	5.7	.0	10.0
P. Church SBDX	*	0	-150	0	-750	* AG	0	5.7	.0	10.0
Q. 5th St. EBAX	*	-750	-7	-150	-7	* AG	1111	5.7	.0	10.0
R. 5th St. EBDX	*	150	-7	750	-7	* AG	1102	5.7	.0	10.0
S. 5th St. WBAX	*	750	4	150	4	* AG	471	5.7	.0	10.0
T. 5th St. WBDX	*	-150	4	-750	4	* AG	387	5.7	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: Existing-05 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

	*	COORDINATES (M)		
RECEPTOR	*	X	Y	Z
	*	-----*		
1. SE	*	12	-14	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-14	1.8
4. NE	*	12	10	1.8
5. ES mdbl	*	150	-14	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	12	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	12	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	12	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	12	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: Existing-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* * * (DEG)	* * * (PPM)	* * * PRED CONC (PPM)	CONC/LINK (PPM)							
				A	B	C	D	E	F	G	H
1. SE	*	277.	* 1.8 *	.0	.0	.0	.0	.0	.0	1.2	.1
2. NW	*	97.	* 1.3 *	.0	.0	.0	.0	.0	.0	.0	.3
3. SW	*	278.	* 1.8 *	.0	.0	.0	.0	.0	.0	1.4	.0
4. NE	*	261.	* 1.4 *	.0	.0	.0	.0	.0	.0	.5	.0
5. ES mdbl	*	277.	* 1.5 *	.0	.0	.0	.0	.0	.0	.1	.9
6. WN mdbl	*	98.	* 1.2 *	.0	.0	.0	.0	.0	.0	.5	.1
7. WS mdbl	*	82.	* 2.0 *	.0	.0	.0	.0	.0	.0	1.4	.0
8. EN mdbl	*	263.	* 1.3 *	.0	.0	.0	.0	.0	.0	.2	.3
9. SE mdbl	*	358.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	172.	* .5 *	.0	.1	.0	.0	.0	.2	.0	.0
11. SW mdbl	*	1.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	191.	* .5 *	.0	.2	.0	.0	.0	.0	.1	.0
13. ES blk	*	276.	* 1.4 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	* 1.0 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	* 1.4 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	* 1.1 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	358.	* .2 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	359.	* .2 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: Existing-05 (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	Q	R	S	T
1. SE	*	.0	.0	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0
2. NW	*	.0	.6	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
3. SW	*	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0
4. NE	*	.1	.0	.3	.0	.0	.0	.0	.0	.2	.0	.0	.0
5. ES mdbl	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.6	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.2	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.2
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.5	.0
17. SE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: Existing-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*			EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	(M)
A. Truck Ac NBA	*	9	-150	9	0	*	AG	0	5.7	.0	10.0
B. Truck Ac NBD	*	9	0	9	150	*	AG	0	5.7	.0	10.0
C. Truck Ac NBL	*	5	-150	0	0	*	AG	0	5.7	.0	10.0
D. Truck Ac SBA	*	-7	150	-7	0	*	AG	0	5.7	.0	10.0
E. Truck Ac SBD	*	-7	0	-7	-150	*	AG	0	5.7	.0	10.0
F. Truck Ac SBL	*	-5	150	0	0	*	AG	0	5.7	.0	10.0
G. 5th St. EBA	*	-150	-9	0	-9	*	AG	0	5.7	.0	10.0
H. 5th St. EBD	*	0	-9	150	-9	*	AG	0	5.7	.0	10.0
I. 5th St. EBL	*	-150	-5	0	0	*	AG	0	5.7	.0	10.0
J. 5th St. WBA	*	150	9	0	9	*	AG	0	5.7	.0	10.0
K. 5th St. WBD	*	0	9	-150	9	*	AG	0	5.7	.0	10.0
L. 5th St. WBL	*	150	5	0	0	*	AG	0	5.7	.0	10.0
M. Truck A NBAX	*	9	-750	9	-150	*	AG	0	5.7	.0	10.0
N. Truck A NBDX	*	9	150	9	750	*	AG	0	5.7	.0	10.0
O. Truck A SBAX	*	-7	750	-7	150	*	AG	0	5.7	.0	10.0
P. Truck A SBDX	*	-7	-150	-7	-750	*	AG	0	5.7	.0	10.0
Q. 5th St. EBAX	*	-750	-9	-150	-9	*	AG	0	5.7	.0	10.0
R. 5th St. EBDX	*	150	-9	750	-9	*	AG	0	5.7	.0	10.0
S. 5th St. WBAX	*	750	9	150	9	*	AG	0	5.7	.0	10.0
T. 5th St. WBDX	*	-150	9	-750	9	*	AG	0	5.7	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: Existing-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. SE	*	17	-15	1.8
2. NW	*	-14	15	1.8
3. SW	*	-14	-17	1.8
4. NE	*	15	17	1.8
5. ES mdbl	*	150	-15	1.8
6. WN mdbl	*	-150	15	1.8
7. WS mdbl	*	-150	-17	1.8
8. EN mdbl	*	150	17	1.8
9. SE mdbl	*	17	-150	1.8
10. NW mdbl	*	-14	150	1.8
11. SW mdbl	*	-14	-150	1.8
12. NE mdbl	*	15	150	1.8
13. ES blk	*	600	-15	1.8
14. WN blk	*	-600	15	1.8
15. WS blk	*	-600	-17	1.8
16. EN blk	*	600	17	1.8
17. SE blk	*	17	-600	1.8
18. NW blk	*	-14	600	1.8
19. SW blk	*	-14	-600	1.8
20. NE blk	*	15	600	1.8

JOB: Upper Santa Ana River Wash
 RUN: Existing-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

JOB: Upper Santa Ana River Wash
 RUN: Existing-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: Existing-07 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. SR-30 SB NBA	*	2	-150	2	0	* AG	0	5.7	.0	10.0
B. SR-30 SB NBD	*	2	0	2	150	* AG	0	5.7	.0	10.0
C. SR-30 SB NBL	*	2	-150	0	0	* AG	0	5.7	.0	10.0
D. SR-30 SB SBA	*	-2	150	-2	0	* AG	94	10.7	.0	10.0
E. SR-30 SB SBD	*	-2	0	-2	-150	* AG	708	12.7	.0	10.0
F. SR-30 SB SBL	*	-2	150	0	0	* AG	217	12.7	.0	10.0
G. 5th St. EBA	*	-150	-4	0	-4	* AG	1185	9.3	.0	13.5
H. 5th St. EBD	*	0	-4	150	-4	* AG	987	6.0	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	0	5.7	.0	10.0
J. 5th St. WBA	*	150	2	0	2	* AG	578	8.5	.0	10.0
K. 5th St. WBD	*	0	2	-150	2	* AG	672	6.0	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	293	12.7	.0	10.0
M. SR-30 S NBAX	*	2	-750	2	-150	* AG	0	5.7	.0	10.0
N. SR-30 S NBDX	*	2	150	2	750	* AG	0	5.7	.0	10.0
O. SR-30 S SBAX	*	-2	750	-2	150	* AG	311	5.7	.0	10.0
P. SR-30 S SBDX	*	-2	-150	-2	-750	* AG	708	5.7	.0	10.0
Q. 5th St. EBAX	*	-750	-4	-150	-4	* AG	1185	5.7	.0	13.5
R. 5th St. EBDX	*	150	-4	750	-4	* AG	987	5.7	.0	10.0
S. 5th St. WBAX	*	750	2	150	2	* AG	871	5.7	.0	10.0
T. 5th St. WBDX	*	-150	2	-750	2	* AG	672	5.7	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: Existing-07 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	8	-10	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-10	1.8
4. NE	*	8	8	1.8
5. ES mdbl	*	150	-10	1.8
6. WN mdbl	*	-150	8	1.8
7. WS mdbl	*	-150	-10	1.8
8. EN mdbl	*	150	8	1.8
9. SE mdbl	*	8	-150	1.8
10. NW mdbl	*	-8	150	1.8
11. SW mdbl	*	-8	-150	1.8
12. NE mdbl	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	8	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-8	600	1.8
19. SW blk	*	-8	-600	1.8
20. NE blk	*	8	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: Existing-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*		* PRED	*	CONC/LINK								
	*	BRG	* CONC	*	(PPM)								
	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H	
	*		*	*									
1. SE	*	276.	*	2.6	*	.0	.0	.0	.0	.5	.0	1.5	.0
2. NW	*	173.	*	2.2	*	.0	.0	.0	.0	1.2	.0	.6	.0
3. SW	*	82.	*	2.8	*	.0	.0	.0	.0	.6	.0	.3	.8
4. NE	*	262.	*	2.0	*	.0	.0	.0	.0	.0	.2	.9	.0
5. ES mdbl	*	276.	*	2.0	*	.0	.0	.0	.0	.0	.0	.2	.8
6. WN mdbl	*	97.	*	2.0	*	.0	.0	.0	.0	.1	.0	.8	.1
7. WS mdbl	*	84.	*	2.7	*	.0	.0	.0	.0	.0	.0	1.8	.1
8. EN mdbl	*	263.	*	2.3	*	.0	.0	.0	.0	.1	.0	.2	.4
9. SE mdbl	*	350.	*	1.2	*	.0	.0	.0	.0	.9	.0	.1	.0
10. NW mdbl	*	175.	*	1.1	*	.0	.0	.0	.2	.2	.4	.0	.0
11. SW mdbl	*	8.	*	1.7	*	.0	.0	.0	.0	1.3	.0	.0	.0
12. NE mdbl	*	185.	*	.9	*	.0	.0	.0	.1	.2	.3	.1	.0
13. ES blk	*	276.	*	1.6	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	*	1.6	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	85.	*	1.9	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	*	1.6	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	.7	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	175.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	.9	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	185.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: Existing-07 (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	Q	R	S	T
1. SE	*	.0	.0	.3	.0	.0	.0	.0	.0	.2	.0	.0	.2
2. NW	*	.0	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0
3. SW	*	.0	.4	.0	.4	.0	.0	.0	.0	.0	.1	.1	.0
4. NE	*	.0	.0	.6	.0	.0	.0	.0	.0	.2	.0	.0	.0
5. ES mdbl	*	.0	.3	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0
6. WN mdbl	*	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.7	.0	.6	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.5	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.6
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.4
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.8	.0
17. SE blk	*	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: Existing-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. SR-30 NB NBA	*	0	-150	0	0	* AG	409	12.7	.0	10.0
B. SR-30 NB NBD	*	0	0	0	150	* AG	254	6.8	.0	10.0
C. SR-30 NB NBL	*	2	-150	0	0	* AG	415	12.9	.0	10.0
D. SR-30 NB SBA	*	0	150	0	0	* AG	0	5.7	.0	10.0
E. SR-30 NB SBD	*	0	0	0	-150	* AG	0	5.7	.0	10.0
F. SR-30 NB SBL	*	-2	150	0	0	* AG	0	5.7	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	* AG	840	9.0	.0	10.0
H. 5th St. EBD	*	0	0	150	0	* AG	1249	6.3	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	147	11.8	.0	10.0
J. 5th St. WBA	*	150	0	0	0	* AG	563	8.5	.0	10.0
K. 5th St. WBD	*	0	0	-150	0	* AG	871	6.0	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	5.7	.0	10.0
M. SR-30 N NBAX	*	0	-750	0	-150	* AG	824	5.7	.0	10.0
N. SR-30 N NBDX	*	0	150	0	750	* AG	254	5.7	.0	10.0
O. SR-30 N SBAX	*	0	750	0	150	* AG	0	5.7	.0	10.0
P. SR-30 N SBDX	*	0	-150	0	-750	* AG	0	5.7	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	* AG	987	5.7	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	* AG	1249	5.7	.0	10.0
S. 5th St. WBAX	*	750	0	150	0	* AG	563	5.7	.0	10.0
T. 5th St. WBDX	*	-150	0	-750	0	* AG	871	5.7	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: Existing-08 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: Existing-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	* PRED	*	CONC/LINK							
	* BRG	* CONC	*	(PPM)							
	* (DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
-----	*	*	*	-----	-----	-----	-----	-----	-----	-----	-----
1. SE	* 277.	* 3.1	*	.3	.0	.4	.0	.0	.0	1.0	.0
2. NW	* 172.	* 2.7	*	.8	.0	.8	.0	.0	.0	.5	.0
3. SW	* 83.	* 2.7	*	.3	.0	.4	.0	.0	.0	.0	1.0
4. NE	* 187.	* 2.5	*	.8	.0	.8	.0	.0	.0	.0	.5
5. ES mdbl	* 276.	* 2.2	*	.0	.0	.0	.0	.0	.0	.1	1.0
6. WN mdbl	* 97.	* 2.5	*	.0	.0	.0	.0	.0	.0	1.1	.1
7. WS mdbl	* 84.	* 2.6	*	.0	.0	.0	.0	.0	.0	1.0	.1
8. EN mdbl	* 264.	* 2.3	*	.0	.0	.0	.0	.0	.0	.1	1.0
9. SE mdbl	* 352.	* 2.2	*	.8	.0	1.1	.0	.0	.0	.0	.0
10. NW mdbl	* 177.	* .8	*	.2	.2	.2	.0	.0	.0	.0	.0
11. SW mdbl	* 9.	* 1.7	*	.8	.0	.7	.0	.0	.0	.0	.0
12. NE mdbl	* 183.	* .8	*	.2	.2	.2	.0	.0	.0	.0	.0
13. ES blk	* 276.	* 1.9	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 96.	* 2.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 84.	* 1.9	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 264.	* 1.9	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 354.	* 1.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 177.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 6.	* 1.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 185.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: Existing-08 (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	Q	R	S	T
1. SE	*	.3	.0	.7	.0	.0	.0	.0	.0	.1	.0	.0	.1
2. NW	*	.1	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.7	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
4. NE	*	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.4	.0	.7	.0	.0	.0	.0	.0	.0	.1	.0	.0
8. EN mdbl	*	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.5	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.8
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.8
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.5	.0
17. SE blk	*	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: Existing-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Boulder	NBA *	0	-150	0	0	* AG	344	10.7	.0	13.5
B. Boulder	NBD *	0	0	0	150	* AG	395	6.6	.0	10.0
C. Boulder	NBL *	2	-150	0	0	* AG	145	11.8	.0	10.0
D. Boulder	SBA *	0	150	0	0	* AG	163	10.7	.0	10.0
E. Boulder	SBD *	0	0	0	-150	* AG	378	7.5	.0	10.0
F. Boulder	SBL *	-2	150	0	0	* AG	84	11.8	.0	10.0
G. 5th St.	EBA *	-150	0	0	0	* AG	1004	9.3	.0	13.5
H. 5th St.	EBD *	0	0	150	0	* AG	896	6.0	.0	10.0
I. 5th St.	EBL *	-150	-2	0	0	* AG	5	11.8	.0	10.0
J. 5th St.	WBA *	150	0	0	0	* AG	456	8.5	.0	13.5
K. 5th St.	WBD *	0	0	-150	0	* AG	546	5.9	.0	10.0
L. 5th St.	WBL *	150	2	0	0	* AG	14	11.8	.0	10.0
M. Boulder	NBAX *	0	-750	0	-150	* AG	489	5.7	.0	13.5
N. Boulder	NBDX *	0	150	0	750	* AG	395	5.7	.0	10.0
O. Boulder	SBAX *	0	750	0	150	* AG	247	5.7	.0	10.0
P. Boulder	SBDX *	0	-150	0	-750	* AG	378	5.7	.0	10.0
Q. 5th St.	EBAX *	-750	0	-150	0	* AG	1009	5.7	.0	13.5
R. 5th St.	EBDX *	150	0	750	0	* AG	896	5.7	.0	10.0
S. 5th St.	WBAX *	750	0	150	0	* AG	470	5.7	.0	13.5
T. 5th St.	WBDX *	-150	0	-750	0	* AG	546	5.7	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: Existing-09 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

JOB: Upper Santa Ana River Wash
RUN: Existing-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: Existing-09 (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	Q	R	S	T
1. SE	*	.0	.0	.4	.0	.0	.0	.0	.0	.2	.0	.0	.1
2. NW	*	.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.6	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0
4. NE	*	.0	.0	.4	.0	.0	.0	.0	.0	.2	.0	.0	.1
5. ES mdbl	*	.0	.7	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
6. WN mdbl	*	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.7	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.6	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.5
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.5
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.6	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	.0

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

JOB: Upper Santa Ana River Wash
RUN: Existing-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 366. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*	EF	H	W	
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Orange S NBA	*	0	-150	0	0	* AG	944	12.9	.0	10.0
B. Orange S NBD	*	0	0	0	150	* AG	948	11.1	.0	10.0
C. Orange S NBL	*	2	-150	0	0	* AG	1	11.8	.0	10.0
D. Orange S SBA	*	0	150	0	0	* AG	540	10.6	.0	10.0
E. Orange S SBD	*	0	0	0	-150	* AG	549	6.5	.0	10.0
F. Orange S SBL	*	-2	150	0	0	* AG	3	11.8	.0	10.0
G. Cemex Ac EBA	*	-150	0	0	0	* AG	3	9.4	.0	10.0
H. Cemex Ac EBD	*	0	0	150	0	* AG	14	6.6	.0	10.0
I. Cemex Ac EBL	*	-150	-2	0	0	* AG	0	6.2	.0	10.0
J. Cemex Ac WBA	*	150	0	0	0	* AG	13	9.4	.0	10.0
K. Cemex Ac WBD	*	0	0	-150	0	* AG	1	6.6	.0	10.0
L. Cemex Ac WBL	*	150	2	0	0	* AG	8	11.8	.0	10.0
M. Orange NBAX	*	0	-750	0	-150	* AG	945	5.7	.0	10.0
N. Orange NBDX	*	0	150	0	750	* AG	948	5.7	.0	10.0
O. Orange SBAX	*	0	750	0	150	* AG	543	5.7	.0	10.0
P. Orange SBDX	*	0	-150	0	-750	* AG	549	5.7	.0	10.0
Q. Cemex A EBAX	*	-750	0	-150	0	* AG	3	6.2	.0	10.0
R. Cemex A EBDX	*	150	0	750	0	* AG	14	6.2	.0	10.0
S. Cemex A WBAX	*	750	0	150	0	* AG	21	6.2	.0	10.0
T. Cemex A WBDX	*	-150	0	-750	0	* AG	1	6.2	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: Existing-10 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

JOB: Upper Santa Ana River Wash
 RUN: Existing-10 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: Existing-10 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.9	.0	.0	.5	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.9	.5	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.9	.0	.0	.5	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.9	.5	.0	.0	.0	.0	.0

**UPPER SANTA ANA RIVER WASH
AIR QUALITY CO HOT SPOT ANALYSIS
CALINE4 MODEL PRINTOUTS
OPENING YEAR (YEAR 2007) BASELINE**

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007Base-01 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	2	-150	2	0	* AG	1266	10.0	.0	10.0
B. Palm Ave NBD	*	2	0	2	150	* AG	658	5.4	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	42	10.1	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	172	7.9	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	391	5.3	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	89	10.1	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	* AG	540	8.0	.0	10.0
H. 5th St. EBD	*	0	0	150	0	* AG	1394	6.1	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	57	10.1	.0	10.0
J. 5th St. WBA	*	150	5	0	5	* AG	554	8.0	.0	10.0
K. 5th St. WBD	*	0	5	-150	5	* AG	468	5.3	.0	10.0
L. 5th St. WBL	*	150	5	0	0	* AG	191	10.1	.0	10.0
M. Palm Av NBAX	*	2	-750	2	-150	* AG	1308	4.9	.0	10.0
N. Palm Av NBDX	*	2	150	2	750	* AG	658	4.9	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	261	4.9	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	391	4.9	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	* AG	597	4.9	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	* AG	1394	4.9	.0	10.0
S. 5th St. WBAX	*	750	5	150	5	* AG	745	4.9	.0	10.0
T. 5th St. WBDX	*	-150	5	-750	5	* AG	468	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007Base-01 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	8	-7	1.8
2. NW	*	-12	12	1.8
3. SW	*	-12	-7	1.8
4. NE	*	8	12	1.8
5. ES mdbl k	*	150	-7	1.8
6. WN mdbl k	*	-150	12	1.8
7. WS mdbl k	*	-150	-7	1.8
8. EN mdbl k	*	150	12	1.8
9. SE mdbl k	*	8	-150	1.8
10. NW mdbl k	*	-12	150	1.8
11. SW mdbl k	*	-12	-150	1.8
12. NE mdbl k	*	8	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	12	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	12	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	8	600	1.8

JOB: Upper Santa Ana River Wash
RUN: 2007Base-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 4

JOB: Upper Santa Ana River Wash
 RUN: 2007Base-01 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

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

		CONC/LINK (PPM)											
RECEPTOR		I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.6	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0
3. SW	*	.0	.4	.0	.3	.0	.0	.0	.0	.0	.2	.1	.0
4. NE	*	.0	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. WS mdbl	*	.1	.1	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0
8. EN mdbl	*	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.4	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.4
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.2
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0
17. SE blk	*	.0	.0	.0	.0	1.0	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: 2007Base-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	718	7.5	.0	10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	1315	5.5	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	69	10.1	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	390	7.2	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	460	5.2	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	1	10.1	.0	10.0
G. 3rd St. EBA	*	-150	-7	0	-7	* AG	160	9.3	.0	10.0
H. 3rd St. EBD	*	0	-7	150	-7	* AG	6	6.2	.0	10.0
I. 3rd St. EBL	*	-150	-5	0	0	* AG	579	10.9	.0	10.0
J. 3rd St. WBA	*	150	4	0	4	* AG	23	9.3	.0	10.0
K. 3rd St. WBD	*	0	4	-150	4	* AG	163	6.2	.0	10.0
L. 3rd St. WBL	*	150	2	0	0	* AG	4	10.1	.0	10.0
M. Palm Av NBAX	*	0	-750	0	-150	* AG	787	4.9	.0	10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	1315	4.9	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	391	4.9	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	460	4.9	.0	10.0
Q. 3rd St. EBAX	*	-750	-7	-150	-7	* AG	739	5.3	.0	10.0
R. 3rd St. EBDX	*	150	-7	750	-7	* AG	6	5.3	.0	10.0
S. 3rd St. WBAX	*	750	4	150	4	* AG	27	5.3	.0	10.0
T. 3rd St. WBDX	*	-150	4	-750	4	* AG	163	5.3	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007Base-02 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. SE	*	7	-14	1.8
2. NW	*	-12	10	1.8
3. SW	*	-12	-14	1.8
4. NE	*	7	10	1.8
5. ES mdbl k	*	150	-14	1.8
6. WN mdbl k	*	-150	10	1.8
7. WS mdbl k	*	-150	-14	1.8
8. EN mdbl k	*	150	10	1.8
9. SE mdbl k	*	7	-150	1.8
10. NW mdbl k	*	-12	150	1.8
11. SW mdbl k	*	-12	-150	1.8
12. NE mdbl k	*	7	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007Base-02 (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. SE	*	278.	*	1.5	*	.4	.0	.0	.0	.1	.0	.2	.0
2. NW	*	172.	*	1.5	*	.4	.0	.0	.0	.3	.0	.0	.0
3. SW	*	7.	*	1.6	*	.0	.5	.0	.4	.0	.0	.1	.0
4. NE	*	260.	*	1.6	*	.0	.5	.0	.1	.0	.0	.1	.0
5. ES mdbl	*	273.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	102.	*	.9	*	.0	.0	.0	.0	.0	.0	.1	.0
7. WS mdbl	*	78.	*	1.3	*	.0	.0	.0	.0	.0	.0	.3	.0
8. EN mdbl	*	267.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	353.	*	1.6	*	.8	.1	.2	.0	.2	.0	.0	.0
10. NW mdbl	*	174.	*	1.3	*	.1	.4	.0	.4	.0	.0	.0	.0
11. SW mdbl	*	6.	*	1.2	*	.4	.1	.0	.0	.3	.0	.0	.0
12. NE mdbl	*	188.	*	1.6	*	.0	1.0	.0	.2	.0	.0	.0	.0
13. ES blk	*	272.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	97.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	*	.9	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	268.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	1.1	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	1.1	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	.9	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	1.4	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007Base-02 (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	Q	R	S	T
1. SE	*	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
4. NE	*	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.2
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	1.0	.2	.0	.0	.0	.0	.0

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

JOB: Upper Santa Ana River Wash
RUN: 2007Base-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*	EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)
A. Palm Ave NBA	*	2	-150	2	0	* AG	754	9.3	.0 10.0
B. Palm Ave NBD	*	2	0	2	150	* AG	788	5.8	.0 10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	4.9	.0 10.0
D. Palm Ave SBA	*	0	150	0	0	* AG	408	7.7	.0 10.0
E. Palm Ave SBD	*	0	0	0	-150	* AG	411	5.2	.0 10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	52	10.1	.0 10.0
G. Robertso EBA	*	-150	-4	0	-4	* AG	0	5.3	.0 10.0
H. Robertso EBD	*	0	-4	150	-4	* AG	52	6.2	.0 10.0
I. Robertso EBL	*	-150	-2	0	0	* AG	0	5.3	.0 10.0
J. Robertso WBA	*	150	4	0	4	* AG	34	9.3	.0 10.0
K. Robertso WBD	*	0	4	-150	4	* AG	0	5.3	.0 10.0
L. Robertso WBL	*	150	2	0	0	* AG	3	10.1	.0 10.0
M. Palm Av NBAX	*	2	-750	2	-150	* AG	754	4.9	.0 10.0
N. Palm Av NBDX	*	2	150	2	750	* AG	788	4.9	.0 10.0
O. Palm Av SBAX	*	0	750	0	150	* AG	460	4.9	.0 10.0
P. Palm Av SBDX	*	0	-150	0	-750	* AG	411	4.9	.0 10.0
Q. Roberts EBAX	*	-750	-4	-150	-4	* AG	0	5.3	.0 10.0
R. Roberts EBDX	*	150	-4	750	-4	* AG	52	5.3	.0 10.0
S. Roberts WBAX	*	750	4	150	4	* AG	37	5.3	.0 10.0
T. Roberts WBDX	*	-150	4	-750	4	* AG	0	5.3	.0 10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007Base-03 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	8	-10	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-10	1.8
4. NE	*	8	10	1.8
5. ES mdbl k	*	150	-10	1.8
6. WN mdbl k	*	-150	10	1.8
7. WS mdbl k	*	-150	-10	1.8
8. EN mdbl k	*	150	10	1.8
9. SE mdbl k	*	8	-150	1.8
10. NW mdbl k	*	-7	150	1.8
11. SW mdbl k	*	-7	-150	1.8
12. NE mdbl k	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	8	600	1.8

JOB: Upper Santa Ana River Wash
 RUN: 2007Base-03 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007Base-03 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.3	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.5	.4	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.5	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0

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

JOB: Upper Santa Ana River Wash
RUN: 2007Base-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 366. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*	EF	H	W	
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	725	9.3	.0	10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	754	5.8	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	4.9	.0	10.0
D. Palm Ave SBA	*	-4	150	-4	0	* AG	392	7.5	.0	10.0
E. Palm Ave SBD	*	-4	0	-4	-150	* AG	398	5.2	.0	10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	19	10.1	.0	10.0
G. Cemex Ac EBA	*	-150	-5	0	-5	* AG	0	5.3	.0	10.0
H. Cemex Ac EBD	*	0	-5	150	-5	* AG	20	6.2	.0	10.0
I. Cemex Ac EBL	*	-150	-2	0	0	* AG	0	5.3	.0	10.0
J. Cemex Ac WBA	*	150	7	0	7	* AG	30	9.3	.0	10.0
K. Cemex Ac WBD	*	0	7	-150	7	* AG	0	5.3	.0	10.0
L. Cemex Ac WBL	*	150	5	0	0	* AG	6	10.1	.0	10.0
M. Palm Av NBAX	*	0	-750	0	-150	* AG	725	4.9	.0	10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	754	4.9	.0	10.0
O. Palm Av SBAX	*	-4	750	-4	150	* AG	411	4.9	.0	10.0
P. Palm Av SBDX	*	-4	-150	-4	-750	* AG	398	4.9	.0	10.0
Q. Cemex A EBAX	*	-750	-5	-150	-5	* AG	0	5.3	.0	10.0
R. Cemex A EBDX	*	150	-5	750	-5	* AG	20	5.3	.0	10.0
S. Cemex A WBAX	*	750	7	150	7	* AG	36	5.3	.0	10.0
T. Cemex A WBDX	*	-150	7	-750	7	* AG	0	5.3	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007Base-04 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. SE	*	7	-12	1.8
2. NW	*	-10	14	1.8
3. SW	*	-10	-14	1.8
4. NE	*	7	14	1.8
5. ES mdbl	*	150	-12	1.8
6. WN mdbl	*	-150	14	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	14	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-10	150	1.8
11. SW mdbl	*	-10	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-12	1.8
14. WN blk	*	-600	14	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	14	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-10	600	1.8
19. SW blk	*	-10	-600	1.8
20. NE blk	*	7	600	1.8

JUNE 1989 VERSION

PAGE 3

JOB: Upper Santa Ana River Wash

RUN: 2007Base-04 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 4

JOB: Upper Santa Ana River Wash
 RUN: 2007Base-04 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007Base-05 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Church A NBA	*	5	-150	5	0	* AG	0	4.9	.0	10.0
B. Church A NBD	*	5	0	5	150	* AG	200	5.7	.0	10.0
C. Church A NBL	*	5	-150	0	0	* AG	0	4.9	.0	10.0
D. Church A SBA	*	0	150	0	0	* AG	25	9.2	.0	10.0
E. Church A SBD	*	0	0	0	-150	* AG	0	4.9	.0	10.0
F. Church A SBL	*	-2	150	0	0	* AG	76	10.1	.0	10.0
G. 5th St. EBA	*	-150	-7	0	-7	* AG	1331	8.5	.0	10.0
H. 5th St. EBD	*	0	-7	150	-7	* AG	1407	5.8	.0	10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	63	10.1	.0	10.0
J. 5th St. WBA	*	150	4	0	4	* AG	849	7.7	.0	10.0
K. 5th St. WBD	*	0	4	-150	4	* AG	737	5.2	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	4.9	.0	10.0
M. Church NBAX	*	5	-750	5	-150	* AG	0	4.9	.0	10.0
N. Church NBDX	*	5	150	5	750	* AG	200	4.9	.0	10.0
O. Church SBAX	*	0	750	0	150	* AG	101	4.9	.0	10.0
P. Church SBDX	*	0	-150	0	-750	* AG	0	4.9	.0	10.0
Q. 5th St. EBAX	*	-750	-7	-150	-7	* AG	1394	4.9	.0	10.0
R. 5th St. EBDX	*	150	-7	750	-7	* AG	1407	4.9	.0	10.0
S. 5th St. WBAX	*	750	4	150	4	* AG	849	4.9	.0	10.0
T. 5th St. WBDX	*	-150	4	-750	4	* AG	737	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007Base-05 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
		X	Y	Z
1. SE	*	12	-14	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-14	1.8
4. NE	*	12	10	1.8
5. ES mdbl	*	150	-14	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	12	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	12	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	12	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	12	600	1.8

JOB: Upper Santa Ana River Wash
RUN: 2007Base-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007Base-05 (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	Q	R	S	T
1. SE	*	.0	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.1
2. NW	*	.0	.9	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
3. SW	*	.0	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.1
4. NE	*	.0	.2	.5	.0	.0	.0	.0	.0	.2	.0	.0	.0
5. ES mdbl	*	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.9	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.3	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.6
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.3
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.7	.0
17. SE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007Base-06 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Truck Ac NBA	*	9	-150	9	0	* AG	0	4.9	.0	10.0
B. Truck Ac NBD	*	9	0	9	150	* AG	0	4.9	.0	10.0
C. Truck Ac NBL	*	5	-150	0	0	* AG	0	4.9	.0	10.0
D. Truck Ac SBA	*	-7	150	-7	0	* AG	0	4.9	.0	10.0
E. Truck Ac SBD	*	-7	0	-7	-150	* AG	0	4.9	.0	10.0
F. Truck Ac SBL	*	-5	150	0	0	* AG	0	4.9	.0	10.0
G. 5th St. EBA	*	-150	-9	0	-9	* AG	0	4.9	.0	10.0
H. 5th St. EBD	*	0	-9	150	-9	* AG	0	4.9	.0	10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	0	4.9	.0	10.0
J. 5th St. WBA	*	150	9	0	9	* AG	0	4.9	.0	10.0
K. 5th St. WBD	*	0	9	-150	9	* AG	0	4.9	.0	10.0
L. 5th St. WBL	*	150	5	0	0	* AG	0	4.9	.0	10.0
M. Truck A NBAX	*	9	-750	9	-150	* AG	0	4.9	.0	10.0
N. Truck A NBDX	*	9	150	9	750	* AG	0	4.9	.0	10.0
O. Truck A SBAX	*	-7	750	-7	150	* AG	0	4.9	.0	10.0
P. Truck A SBDX	*	-7	-150	-7	-750	* AG	0	4.9	.0	10.0
Q. 5th St. EBAX	*	-750	-9	-150	-9	* AG	0	4.9	.0	10.0
R. 5th St. EBDX	*	150	-9	750	-9	* AG	0	4.9	.0	10.0
S. 5th St. WBAX	*	750	9	150	9	* AG	0	4.9	.0	10.0
T. 5th St. WBDX	*	-150	9	-750	9	* AG	0	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007Base-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	17	-15	1.8
2. NW	*	-14	15	1.8
3. SW	*	-14	-17	1.8
4. NE	*	15	17	1.8
5. ES mdbl	*	150	-15	1.8
6. WN mdbl	*	-150	15	1.8
7. WS mdbl	*	-150	-17	1.8
8. EN mdbl	*	150	17	1.8
9. SE mdbl	*	17	-150	1.8
10. NW mdbl	*	-14	150	1.8
11. SW mdbl	*	-14	-150	1.8
12. NE mdbl	*	15	150	1.8
13. ES blk	*	600	-15	1.8
14. WN blk	*	-600	15	1.8
15. WS blk	*	-600	-17	1.8
16. EN blk	*	600	17	1.8
17. SE blk	*	17	-600	1.8
18. NW blk	*	-14	600	1.8
19. SW blk	*	-14	-600	1.8
20. NE blk	*	15	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007Base-06 (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. SE	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	0.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Upper Santa Ana River Wash
 RUN: 2007Base-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007Base-07 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. SR-30 SB NBA	*	2	-150	2	0	* AG	0	4.9	.0	10.0
B. SR-30 SB NBD	*	2	0	2	150	* AG	0	4.9	.0	10.0
C. SR-30 SB NBL	*	2	-150	0	0	* AG	0	4.9	.0	10.0
D. SR-30 SB SBA	*	-2	150	-2	0	* AG	99	9.2	.0	10.0
E. SR-30 SB SBD	*	-2	0	-2	-150	* AG	798	10.9	.0	10.0
F. SR-30 SB SBL	*	-2	150	0	0	* AG	249	10.9	.0	10.0
G. 5th St. EBA	*	-150	-4	0	-4	* AG	1408	9.3	.0	13.5
H. 5th St. EBD	*	0	-4	150	-4	* AG	1219	5.5	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	0	4.9	.0	10.0
J. 5th St. WBA	*	150	2	0	2	* AG	745	7.5	.0	10.0
K. 5th St. WBD	*	0	2	-150	2	* AG	844	5.2	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	360	11.0	.0	10.0
M. SR-30 S NBAX	*	2	-750	2	-150	* AG	0	4.9	.0	10.0
N. SR-30 S NBDX	*	2	150	2	750	* AG	0	4.9	.0	10.0
O. SR-30 S SBAX	*	-2	750	-2	150	* AG	348	4.9	.0	10.0
P. SR-30 S SBDX	*	-2	-150	-2	-750	* AG	798	4.9	.0	10.0
Q. 5th St. EBAX	*	-750	-4	-150	-4	* AG	1408	4.9	.0	13.5
R. 5th St. EBDX	*	150	-4	750	-4	* AG	1219	4.9	.0	10.0
S. 5th St. WBAX	*	750	2	150	2	* AG	1105	4.9	.0	10.0
T. 5th St. WBDX	*	-150	2	-750	2	* AG	844	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007Base-07 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	8	-10	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-10	1.8
4. NE	*	8	8	1.8
5. ES mdbl k	*	150	-10	1.8
6. WN mdbl k	*	-150	8	1.8
7. WS mdbl k	*	-150	-10	1.8
8. EN mdbl k	*	150	8	1.8
9. SE mdbl k	*	8	-150	1.8
10. NW mdbl k	*	-8	150	1.8
11. SW mdbl k	*	-8	-150	1.8
12. NE mdbl k	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	8	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-8	600	1.8
19. SW blk	*	-8	-600	1.8
20. NE blk	*	8	600	1.8

JOB: Upper Santa Ana River Wash
RUN: 2007Base-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007Base-07 (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	Q	R	S	T
1. SE	*	.0	.0	.3	.0	.0	.0	.0	.0	.2	.0	.0	.2
2. NW	*	.0	.8	.0	.5	.0	.0	.0	.0	.0	.2	.1	.0
3. SW	*	.0	.4	.0	.4	.0	.0	.0	.0	.0	.1	.1	.0
4. NE	*	.0	.0	.6	.0	.0	.0	.0	.0	.1	.0	.0	.0
5. ES mdbl	*	.0	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.5	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.4
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.9	.0
17. SE blk	*	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007Base-08 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. SR-30 NB NBA	*	0	-150	0	0	* AG	552	11.0	.0	10.0
B. SR-30 NB NBD	*	0	0	0	150	* AG	260	5.9	.0	10.0
C. SR-30 NB NBL	*	2	-150	0	0	* AG	463	11.0	.0	10.0
D. SR-30 NB SBA	*	0	150	0	0	* AG	0	4.9	.0	10.0
E. SR-30 NB SBD	*	0	0	0	-150	* AG	0	4.9	.0	10.0
F. SR-30 NB SBL	*	-2	150	0	0	* AG	0	4.9	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	* AG	978	7.7	.0	10.0
H. 5th St. EBD	*	0	0	150	0	* AG	1530	5.8	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	130	10.1	.0	10.0
J. 5th St. WBA	*	150	0	0	0	* AG	827	7.7	.0	10.0
K. 5th St. WBD	*	0	0	-150	0	* AG	1160	5.3	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	4.9	.0	10.0
M. SR-30 N NBAX	*	0	-750	0	-150	* AG	1015	4.9	.0	10.0
N. SR-30 N NBDX	*	0	150	0	750	* AG	260	4.9	.0	10.0
O. SR-30 N SBAX	*	0	750	0	150	* AG	0	4.9	.0	10.0
P. SR-30 N SBDX	*	0	-150	0	-750	* AG	0	4.9	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	* AG	1108	4.9	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	* AG	1530	4.9	.0	10.0
S. 5th St. WBAX	*	750	0	150	0	* AG	827	4.9	.0	10.0
T. 5th St. WBDX	*	-150	0	-750	0	* AG	1160	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007Base-08 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl k	*	150	-7	1.8
6. WN mdbl k	*	-150	7	1.8
7. WS mdbl k	*	-150	-7	1.8
8. EN mdbl k	*	150	7	1.8
9. SE mdbl k	*	7	-150	1.8
10. NW mdbl k	*	-7	150	1.8
11. SW mdbl k	*	-7	-150	1.8
12. NE mdbl k	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007Base-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	* PRED	*	CONC/LINK							
	* BRG	* CONC	*	(PPM)							
	* (DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
	*	*	*								
1. SE	* 277.	* 3.1	*	.4	.0	.3	.0	.0	.0	1.0	.0
2. NW	* 172.	* 2.7	*	.9	.0	.8	.0	.0	.0	.5	.0
3. SW	* 83.	* 3.1	*	.4	.0	.3	.0	.0	.0	.0	1.1
4. NE	* 187.	* 2.8	*	.9	.0	.7	.0	.0	.0	.0	.6
5. ES mdbl	* 276.	* 2.5	*	.0	.0	.0	.0	.0	.0	.1	1.1
6. WN mdbl	* 97.	* 2.6	*	.0	.0	.0	.0	.0	.0	1.1	.1
7. WS mdbl	* 84.	* 2.6	*	.0	.0	.0	.0	.0	.0	1.0	.1
8. EN mdbl	* 263.	* 2.6	*	.0	.0	.0	.0	.0	.0	.1	1.2
9. SE mdbl	* 352.	* 2.2	*	.9	.0	1.1	.0	.0	.0	.0	.0
10. NW mdbl	* 177.	* .8	*	.2	.2	.1	.0	.0	.0	.0	.0
11. SW mdbl	* 9.	* 1.8	*	.9	.0	.6	.0	.0	.0	.0	.1
12. NE mdbl	* 182.	* .8	*	.2	.2	.1	.0	.0	.0	.0	.0
13. ES blk	* 276.	* 2.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 96.	* 2.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 84.	* 2.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 264.	* 2.0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 354.	* 1.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 177.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 6.	* 1.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 183.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007Base-08 (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	Q	R	S	T
1. SE	*	.2	.0	.8	.0	.0	.0	.0	.0	.1	.0	.0	.1
2. NW	*	.0	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.9	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0
4. NE	*	.0	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.2	.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.3	.1	.8	.0	.0	.0	.0	.0	.0	.1	.0	.0
8. EN mdbl	*	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.7	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.7	.0
17. SE blk	*	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007Base-09 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK		* LINK COORDINATES (M)				EF	H	W		
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Boulder	NBA *	0	-150	0	0	* AG	389	9.2	.0	13.5
B. Boulder	NBD *	0	0	0	150	* AG	486	5.9	.0	10.0
C. Boulder	NBL *	2	-150	0	0	* AG	186	10.1	.0	10.0
D. Boulder	SBA *	0	150	0	0	* AG	202	9.6	.0	10.0
E. Boulder	SBD *	0	0	0	-150	* AG	495	8.6	.0	10.0
F. Boulder	SBL *	-2	150	0	0	* AG	137	10.1	.0	10.0
G. 5th St.	EBA *	-150	0	0	0	* AG	1314	8.5	.0	13.5
H. 5th St.	EBD *	0	0	150	0	* AG	1193	5.3	.0	10.0
I. 5th St.	EBL *	-150	-2	0	0	* AG	41	10.1	.0	10.0
J. 5th St.	WBA *	150	0	0	0	* AG	624	7.5	.0	13.5
K. 5th St.	WBD *	0	0	-150	0	* AG	749	5.2	.0	10.0
L. 5th St.	WBL *	150	2	0	0	* AG	30	10.1	.0	10.0
M. Boulder	NBAX *	0	-750	0	-150	* AG	575	4.9	.0	13.5
N. Boulder	NBDX *	0	150	0	750	* AG	486	4.9	.0	10.0
O. Boulder	SBAX *	0	750	0	150	* AG	339	4.9	.0	10.0
P. Boulder	SBDX *	0	-150	0	-750	* AG	495	4.9	.0	10.0
Q. 5th St.	EBAX *	-750	0	-150	0	* AG	1355	4.9	.0	13.5
R. 5th St.	EBDX *	150	0	750	0	* AG	1193	4.9	.0	10.0
S. 5th St.	WBAX *	750	0	150	0	* AG	654	4.9	.0	13.5
T. 5th St.	WBDX *	-150	0	-750	0	* AG	749	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007Base-09 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007Base-09 (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. SE	*	276.	*	3.3	*	.2	.0	.1	.0	.3	.0	1.6	.0
2. NW	*	173.	*	2.7	*	.6	.0	.3	.0	.6	.0	.8	.0
3. SW	*	84.	*	2.8	*	.2	.0	.1	.0	.3	.0	.3	.8
4. NE	*	264.	*	3.0	*	.0	.2	.0	.1	.0	.0	1.6	.0
5. ES mdbl	*	275.	*	2.3	*	.0	.0	.0	.0	.0	.0	.2	.8
6. WN mdbl	*	96.	*	2.9	*	.0	.0	.0	.0	.0	.0	1.8	.1
7. WS mdbl	*	84.	*	3.0	*	.0	.0	.0	.0	.0	.0	1.8	.1
8. EN mdbl	*	265.	*	2.3	*	.0	.0	.0	.0	.0	.0	.2	.8
9. SE mdbl	*	354.	*	2.1	*	.6	.0	.4	.0	.6	.0	.1	.0
10. NW mdbl	*	175.	*	1.6	*	.0	.4	.0	.3	.1	.3	.0	.0
11. SW mdbl	*	6.	*	1.9	*	.6	.0	.2	.0	.6	.0	.0	.0
12. NE mdbl	*	185.	*	1.4	*	.0	.4	.0	.3	.1	.2	.1	.0
13. ES blk	*	275.	*	1.8	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	95.	*	2.1	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	85.	*	2.1	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	*	1.8	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	355.	*	1.2	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	175.	*	.9	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	5.	*	1.2	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	185.	*	1.0	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007Base-09 (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	Q	R	S	T
1. SE	*	.0	.1	.5	.0	.0	.0	.0	.0	.2	.0	.0	.1
2. NW	*	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.7	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0
4. NE	*	.0	.1	.5	.0	.0	.0	.0	.0	.2	.0	.0	.1
5. ES mdbl	*	.0	.8	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
6. WN mdbl	*	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.8	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.6	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.6
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.6
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.6	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: 2007Base-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Orange S NBA	*	0	-150	0	0	* AG	1039	11.0	.0	10.0
B. Orange S NBD	*	0	0	0	150	* AG	1043	9.5	.0	10.0
C. Orange S NBL	*	2	-150	0	0	* AG	1	10.1	.0	10.0
D. Orange S SBA	*	0	150	0	0	* AG	606	10.0	.0	10.0
E. Orange S SBD	*	0	0	0	-150	* AG	615	6.1	.0	10.0
F. Orange S SBL	*	-2	150	0	0	* AG	3	10.1	.0	10.0
G. Cemex Ac EBA	*	-150	0	0	0	* AG	3	8.1	.0	10.0
H. Cemex Ac EBD	*	0	0	150	0	* AG	14	5.8	.0	10.0
I. Cemex Ac EBL	*	-150	-2	0	0	* AG	0	5.3	.0	10.0
J. Cemex Ac WBA	*	150	0	0	0	* AG	13	8.1	.0	10.0
K. Cemex Ac WBD	*	0	0	-150	0	* AG	1	5.8	.0	10.0
L. Cemex Ac WBL	*	150	2	0	0	* AG	8	10.1	.0	10.0
M. Orange NBAX	*	0	-750	0	-150	* AG	1040	4.9	.0	10.0
N. Orange NBDX	*	0	150	0	750	* AG	1043	4.9	.0	10.0
O. Orange SBAX	*	0	750	0	150	* AG	609	4.9	.0	10.0
P. Orange SBDX	*	0	-150	0	-750	* AG	615	4.9	.0	10.0
Q. Cemex A EBAX	*	-750	0	-150	0	* AG	3	5.3	.0	10.0
R. Cemex A EBDX	*	150	0	750	0	* AG	14	5.3	.0	10.0
S. Cemex A WBAX	*	750	0	150	0	* AG	21	5.3	.0	10.0
T. Cemex A WBDX	*	-150	0	-750	0	* AG	1	5.3	.0	10.0

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

JOB: Upper Santa Ana River Wash
RUN: 2007Base-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007Base-10 (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. SE	* 353.	* 2.5 *	.0	1.3	.0	.9	.0	.0	.0	.0
2. NW	* 8.	* 2.5 *	.0	1.4	.0	.9	.0	.0	.0	.0
3. SW	* 7.	* 2.5 *	.0	1.3	.0	.9	.0	.0	.0	.0
4. NE	* 352.	* 2.5 *	.0	1.4	.0	.9	.0	.0	.0	.0
5. ES mdbl	* 278.	* .3 *	.0	.1	.0	.0	.0	.0	.0	.0
6. WN mdbl	* 91.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	* 54.	* .3 *	.0	.2	.0	.1	.0	.0	.0	.0
8. EN mdbl	* 265.	* .3 *	.1	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	* 353.	* 2.5 *	1.6	.1	.0	.1	.6	.0	.0	.0
10. NW mdbl	* 173.	* 2.6 *	.2	1.4	.0	.9	.0	.0	.0	.0
11. SW mdbl	* 7.	* 2.5 *	1.6	.1	.0	.1	.6	.0	.0	.0
12. NE mdbl	* 187.	* 2.6 *	.2	1.4	.0	.9	.0	.0	.0	.0
13. ES blk	* 274.	* .2 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 90.	* .2 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 88.	* .2 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 267.	* .2 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 354.	* 1.5 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 174.	* 1.5 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 6.	* 1.5 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 186.	* 1.5 *	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007Base-10 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.8	.0	.0	.5	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.8	.5	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.8	.0	.0	.5	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.8	.5	.0	.0	.0	.0	.0

**UPPER SANTA ANA RIVER WASH
AIR QUALITY CO HOT SPOT ANALYSIS
CALINE4 MODEL PRINTOUTS
OPENING YEAR (YEAR 2007) LAND USE ALTERNATIVE 1,
ACCESS ALTERNATIVE A WITH PROJECT**

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007A1A-01 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	2	-150	2	0	* AG	1251	10.0	.0	10.0
B. Palm Ave NBD	*	2	0	2	150	* AG	658	5.4	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	42	10.1	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	172	7.9	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	347	5.3	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	89	10.1	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	* AG	541	8.0	.0	10.0
H. 5th St. EBD	*	0	0	150	0	* AG	1379	6.1	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	57	10.1	.0	10.0
J. 5th St. WBA	*	150	5	0	5	* AG	554	8.0	.0	10.0
K. 5th St. WBD	*	0	5	-150	5	* AG	468	5.3	.0	10.0
L. 5th St. WBL	*	150	5	0	0	* AG	146	10.1	.0	10.0
M. Palm Av NBAX	*	2	-750	2	-150	* AG	1293	4.9	.0	10.0
N. Palm Av NBDX	*	2	150	2	750	* AG	658	4.9	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	261	4.9	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	347	4.9	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	* AG	598	4.9	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	* AG	1379	4.9	.0	10.0
S. 5th St. WBAX	*	750	5	150	5	* AG	700	4.9	.0	10.0
T. 5th St. WBDX	*	-150	5	-750	5	* AG	468	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A1A-01 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
		X	Y	Z
1. SE	*	8	-7	1.8
2. NW	*	-12	12	1.8
3. SW	*	-12	-7	1.8
4. NE	*	8	12	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	12	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	12	1.8
9. SE mdbl	*	8	-150	1.8
10. NW mdbl	*	-12	150	1.8
11. SW mdbl	*	-12	-150	1.8
12. NE mdbl	*	8	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	12	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	12	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	8	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* * * * *	BRG (DEG)	* * * * *	PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. SE	*	188.	*	2.1 *	1.7	.0	.0	.0	.1	.0	.0	.0
2. NW	*	97.	*	2.0 *	.0	.2	.0	.0	.0	.0	.0	.6
3. SW	*	83.	*	2.6 *	.6	.0	.0	.0	.1	.0	.0	1.0
4. NE	*	187.	*	2.8 *	1.5	.0	.0	.0	.1	.0	.0	.4
5. ES mdbl	*	278.	*	2.0 *	.0	.0	.0	.0	.0	.0	.0	1.2
6. WN mdbl	*	96.	*	1.4 *	.1	.0	.0	.0	.0	.0	.3	.2
7. WS mdbl	*	85.	*	1.6 *	.0	.0	.0	.0	.0	.0	.6	.2
8. EN mdbl	*	261.	*	1.9 *	.1	.0	.0	.0	.0	.0	.0	.6
9. SE mdbl	*	352.	*	2.3 *	1.8	.0	.0	.0	.1	.0	.0	.0
10. NW mdbl	*	174.	*	1.2 *	.3	.2	.0	.2	.0	.1	.0	.0
11. SW mdbl	*	10.	*	1.5 *	.9	.0	.0	.0	.3	.0	.0	.0
12. NE mdbl	*	185.	*	1.3 *	.2	.5	.0	.0	.0	.0	.0	.0
13. ES blk	*	276.	*	1.6 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	*	1.0 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	85.	*	1.0 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	*	1.4 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	1.4 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.8 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	1.1 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	185.	*	.9 *	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-01 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.6	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0
3. SW	*	.0	.4	.0	.2	.0	.0	.0	.0	.0	.2	.1	.0
4. NE	*	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. WS mdbl	*	.1	.1	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0
8. EN mdbl	*	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.3	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.4
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.2
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0
17. SE blk	*	.0	.0	.0	.0	1.0	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	.0

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

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*	EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	703	7.5	.0 10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	1300	5.5	.0 10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	69	10.1	.0 10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	346	7.2	.0 10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	416	5.2	.0 10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	1	10.1	.0 10.0
G. 3rd St. EBA	*	-150	-7	0	-7	* AG	160	9.3	.0 10.0
H. 3rd St. EBD	*	0	-7	150	-7	* AG	6	6.2	.0 10.0
I. 3rd St. EBL	*	-150	-5	0	0	* AG	579	10.9	.0 10.0
J. 3rd St. WBA	*	150	4	0	4	* AG	23	9.3	.0 10.0
K. 3rd St. WBD	*	0	4	-150	4	* AG	163	6.2	.0 10.0
L. 3rd St. WBL	*	150	2	0	0	* AG	4	10.1	.0 10.0
M. Palm Av NBAX	*	0	-750	0	-150	* AG	772	4.9	.0 10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	1300	4.9	.0 10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	347	4.9	.0 10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	416	4.9	.0 10.0
Q. 3rd St. EBAX	*	-750	-7	-150	-7	* AG	739	5.3	.0 10.0
R. 3rd St. EBDX	*	150	-7	750	-7	* AG	6	5.3	.0 10.0
S. 3rd St. WBAX	*	750	4	150	4	* AG	27	5.3	.0 10.0
T. 3rd St. WBDX	*	-150	4	-750	4	* AG	163	5.3	.0 10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A1A-02 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. SE	*	7	-14	1.8
2. NW	*	-12	10	1.8
3. SW	*	-12	-14	1.8
4. NE	*	7	10	1.8
5. ES mdbl	*	150	-14	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-12	150	1.8
11. SW mdbl	*	-12	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* * * * *	BRG (DEG)	* * * * *	PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. SE	*	278.	*	1.4	.4	.0	.0	.0	.1	.0	.2	.0
2. NW	*	172.	*	1.5	.4	.0	.0	.0	.3	.0	.0	.0
3. SW	*	7.	*	1.6	.0	.5	.0	.3	.0	.0	.1	.0
4. NE	*	260.	*	1.6	.0	.5	.0	.1	.0	.0	.1	.0
5. ES mdbl	*	273.	*	.5	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	102.	*	.9	.0	.0	.0	.0	.0	.0	.1	.0
7. WS mdbl	*	78.	*	1.2	.0	.0	.0	.0	.0	.0	.3	.0
8. EN mdbl	*	267.	*	.6	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	353.	*	1.5	.8	.1	.2	.0	.2	.0	.0	.0
10. NW mdbl	*	174.	*	1.2	.1	.4	.0	.4	.0	.0	.0	.0
11. SW mdbl	*	6.	*	1.2	.4	.1	.0	.0	.3	.0	.0	.0
12. NE mdbl	*	188.	*	1.6	.0	1.0	.0	.2	.0	.0	.0	.0
13. ES blk	*	272.	*	.2	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	97.	*	.6	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	*	.9	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	268.	*	.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	1.1	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	1.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	.9	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	1.4	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-02 (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	Q	R	S	T
1. SE	*	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
4. NE	*	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.2
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	1.0	.2	.0	.0	.0	.0	.0

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

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	2	-150	2	0	* AG	754	9.3	.0	10.0
B. Palm Ave NBD	*	2	0	2	150	* AG	773	5.8	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	4.9	.0	10.0
D. Palm Ave SBA	*	0	150	0	0	* AG	409	7.7	.0	10.0
E. Palm Ave SBD	*	0	0	0	-150	* AG	412	5.2	.0	10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	7	10.1	.0	10.0
G. Robertso EBA	*	-150	-4	0	-4	* AG	0	5.3	.0	10.0
H. Robertso EBD	*	0	-4	150	-4	* AG	7	6.2	.0	10.0
I. Robertso EBL	*	-150	-2	0	0	* AG	0	5.3	.0	10.0
J. Robertso WBA	*	150	4	0	4	* AG	19	9.3	.0	10.0
K. Robertso WBD	*	0	4	-150	4	* AG	0	5.3	.0	10.0
L. Robertso WBL	*	150	2	0	0	* AG	3	10.1	.0	10.0
M. Palm Av NBAX	*	2	-750	2	-150	* AG	754	4.9	.0	10.0
N. Palm Av NBDX	*	2	150	2	750	* AG	773	4.9	.0	10.0
O. Palm Av SBAX	*	0	750	0	150	* AG	416	4.9	.0	10.0
P. Palm Av SBDX	*	0	-150	0	-750	* AG	412	4.9	.0	10.0
Q. Roberts EBAX	*	-750	-4	-150	-4	* AG	0	5.3	.0	10.0
R. Roberts EBDX	*	150	-4	750	-4	* AG	7	5.3	.0	10.0
S. Roberts WBAX	*	750	4	150	4	* AG	22	5.3	.0	10.0
T. Roberts WBDX	*	-150	4	-750	4	* AG	0	5.3	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A1A-03 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	8	-10	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-10	1.8
4. NE	*	8	10	1.8
5. ES mdbl	*	150	-10	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-10	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	8	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	8	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-03 (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. SE	*	188.	*	1.4	*	1.0	.0	.0	.0	.3	.0	.0	.0
2. NW	*	172.	*	1.3	*	.8	.0	.0	.0	.3	.0	.0	.0
3. SW	*	172.	*	1.3	*	.8	.0	.0	.0	.3	.0	.0	.0
4. NE	*	187.	*	1.4	*	.9	.0	.0	.0	.3	.0	.0	.0
5. ES mdbl	*	280.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	127.	*	.2	*	.1	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	89.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	260.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	353.	*	1.5	*	1.0	.0	.0	.0	.2	.0	.0	.0
10. NW mdbl	*	174.	*	1.3	*	.1	.5	.0	.5	.0	.0	.0	.0
11. SW mdbl	*	7.	*	1.3	*	.8	.0	.0	.0	.3	.0	.0	.0
12. NE mdbl	*	186.	*	1.3	*	.1	.6	.0	.3	.0	.0	.0	.0
13. ES blk	*	273.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	93.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	92.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	265.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	1.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	1.0	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	1.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	1.0	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-03 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.3	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.5	.4	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.5	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007A1A-04 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	725	9.3	.0	10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	754	5.8	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	4.9	.0	10.0
D. Palm Ave SBA	*	-4	150	-4	0	* AG	392	7.5	.0	10.0
E. Palm Ave SBD	*	-4	0	-4	-150	* AG	398	5.2	.0	10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	20	10.1	.0	10.0
G. Cemex Ac EBA	*	-150	-5	0	-5	* AG	0	5.3	.0	10.0
H. Cemex Ac EBD	*	0	-5	150	-5	* AG	21	6.2	.0	10.0
I. Cemex Ac EBL	*	-150	-2	0	0	* AG	0	5.3	.0	10.0
J. Cemex Ac WBA	*	150	7	0	7	* AG	30	9.3	.0	10.0
K. Cemex Ac WBD	*	0	7	-150	7	* AG	0	5.3	.0	10.0
L. Cemex Ac WBL	*	150	5	0	0	* AG	6	10.1	.0	10.0
M. Palm Av NBAX	*	0	-750	0	-150	* AG	725	4.9	.0	10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	754	4.9	.0	10.0
O. Palm Av SBAX	*	-4	750	-4	150	* AG	412	4.9	.0	10.0
P. Palm Av SBDX	*	-4	-150	-4	-750	* AG	398	4.9	.0	10.0
Q. Cemex A EBAX	*	-750	-5	-150	-5	* AG	0	5.3	.0	10.0
R. Cemex A EBDX	*	150	-5	750	-5	* AG	21	5.3	.0	10.0
S. Cemex A WBAX	*	750	7	150	7	* AG	36	5.3	.0	10.0
T. Cemex A WBDX	*	-150	7	-750	7	* AG	0	5.3	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A1A-04 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	7	-12	1.8
2. NW	*	-10	14	1.8
3. SW	*	-10	-14	1.8
4. NE	*	7	14	1.8
5. ES mdbl	*	150	-12	1.8
6. WN mdbl	*	-150	14	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	14	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-10	150	1.8
11. SW mdbl	*	-10	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-12	1.8
14. WN blk	*	-600	14	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	14	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-10	600	1.8
19. SW blk	*	-10	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-04 (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. SE	*	188.	*	1.3	*	1.0	.0	.0	.0	.2	.0	.0	.0
2. NW	*	172.	*	1.1	*	.6	.0	.0	.0	.3	.0	.0	.0
3. SW	*	172.	*	1.1	*	.6	.0	.0	.0	.3	.0	.0	.0
4. NE	*	187.	*	1.3	*	.8	.1	.0	.0	.2	.0	.0	.0
5. ES mdbl	*	281.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	93.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	87.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	259.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	353.	*	1.4	*	1.0	.0	.0	.0	.2	.0	.0	.0
10. NW mdbl	*	174.	*	1.2	*	.2	.4	.0	.4	.0	.0	.0	.0
11. SW mdbl	*	7.	*	1.2	*	.6	.0	.0	.0	.3	.0	.0	.0
12. NE mdbl	*	186.	*	1.2	*	.1	.6	.0	.3	.0	.0	.0	.0
13. ES blk	*	275.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	92.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	90.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	265.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	.9	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.9	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	.9	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	1.0	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-04 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007A1A-05 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Church A NBA	*	5	-150	5	0	* AG	0	4.9	.0	10.0
B. Church A NBD	*	5	0	5	150	* AG	200	5.7	.0	10.0
C. Church A NBL	*	5	-150	0	0	* AG	0	4.9	.0	10.0
D. Church A SBA	*	0	150	0	0	* AG	25	9.2	.0	10.0
E. Church A SBD	*	0	0	0	-150	* AG	0	4.9	.0	10.0
F. Church A SBL	*	-2	150	0	0	* AG	76	10.1	.0	10.0
G. 5th St. EBA	*	-150	-7	0	-7	* AG	1316	8.5	.0	10.0
H. 5th St. EBD	*	0	-7	150	-7	* AG	1392	5.5	.0	10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	63	10.1	.0	10.0
J. 5th St. WBA	*	150	4	0	4	* AG	804	7.7	.0	10.0
K. 5th St. WBD	*	0	4	-150	4	* AG	692	5.2	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	4.9	.0	10.0
M. Church NBAX	*	5	-750	5	-150	* AG	0	4.9	.0	10.0
N. Church NBDX	*	5	150	5	750	* AG	200	4.9	.0	10.0
O. Church SBAX	*	0	750	0	150	* AG	101	4.9	.0	10.0
P. Church SBDX	*	0	-150	0	-750	* AG	0	4.9	.0	10.0
Q. 5th St. EBAX	*	-750	-7	-150	-7	* AG	1379	4.9	.0	10.0
R. 5th St. EBDX	*	150	-7	750	-7	* AG	1392	4.9	.0	10.0
S. 5th St. WBAX	*	750	4	150	4	* AG	804	4.9	.0	10.0
T. 5th St. WBDX	*	-150	4	-750	4	* AG	692	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A1A-05 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. SE	*	12	-14	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-14	1.8
4. NE	*	12	10	1.8
5. ES mdbl k	*	150	-14	1.8
6. WN mdbl k	*	-150	10	1.8
7. WS mdbl k	*	-150	-14	1.8
8. EN mdbl k	*	150	10	1.8
9. SE mdbl k	*	12	-150	1.8
10. NW mdbl k	*	-7	150	1.8
11. SW mdbl k	*	-7	-150	1.8
12. NE mdbl k	*	12	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	12	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	12	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* * * * *	BRG (DEG)	* * * * *	PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. SE	*	278.	*	2.0 *	.0	.0	.0	.0	.0	.0	1.3	.2
2. NW	*	98.	*	1.7 *	.0	.0	.0	.0	.0	.0	.0	.4
3. SW	*	278.	*	2.1 *	.0	.0	.0	.0	.0	.0	1.5	.0
4. NE	*	261.	*	1.6 *	.0	.0	.0	.0	.0	.0	.6	.0
5. ES mdbl	*	277.	*	1.8 *	.0	.0	.0	.0	.0	.0	.2	1.0
6. WN mdbl	*	98.	*	1.5 *	.0	.0	.0	.0	.0	.0	.5	.2
7. WS mdbl	*	82.	*	2.2 *	.0	.0	.0	.0	.0	.0	1.6	.0
8. EN mdbl	*	263.	*	1.7 *	.0	.0	.0	.0	.0	.0	.2	.3
9. SE mdbl	*	358.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	172.	*	.5 *	.0	.1	.0	.0	.0	.2	.0	.0
11. SW mdbl	*	2.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	191.	*	.5 *	.0	.2	.0	.0	.0	.0	.1	.0
13. ES blk	*	277.	*	1.5 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	*	1.2 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	*	1.5 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	263.	*	1.3 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	358.	*	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	360.	*	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-05 (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	Q	R	S	T
1. SE	*	.0	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.1
2. NW	*	.0	.9	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
3. SW	*	.0	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.1
4. NE	*	.0	.2	.5	.0	.0	.0	.0	.0	.2	.0	.0	.0
5. ES mdbl	*	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.9	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.3	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.6
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.3
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.7	.0
17. SE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007A1A-06 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Truck Ac NBA	*	9	-150	9	0	* AG	30	9.2	.0	10.0
B. Truck Ac NBD	*	9	0	9	150	* AG	53	5.7	.0	10.0
C. Truck Ac NBL	*	5	-150	0	0	* AG	0	4.9	.0	10.0
D. Truck Ac SBA	*	-7	150	-7	0	* AG	0	4.9	.0	10.0
E. Truck Ac SBD	*	-7	0	-7	-150	* AG	0	4.9	.0	10.0
F. Truck Ac SBL	*	-5	150	0	0	* AG	0	4.9	.0	10.0
G. 5th St. EBA	*	-150	-9	0	-9	* AG	1394	8.5	.0	10.0
H. 5th St. EBD	*	0	-9	150	-9	* AG	1424	5.8	.0	10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	0	4.9	.0	10.0
J. 5th St. WBA	*	150	9	0	9	* AG	856	7.7	.0	10.0
K. 5th St. WBD	*	0	9	-150	9	* AG	803	5.2	.0	10.0
L. 5th St. WBL	*	150	5	0	0	* AG	0	4.9	.0	10.0
M. Truck A NBAX	*	9	-750	9	-150	* AG	30	4.9	.0	10.0
N. Truck A NBDX	*	9	150	9	750	* AG	53	4.9	.0	10.0
O. Truck A SBAX	*	-7	750	-7	150	* AG	0	4.9	.0	10.0
P. Truck A SBDX	*	-7	-150	-7	-750	* AG	0	4.9	.0	10.0
Q. 5th St. EBAX	*	-750	-9	-150	-9	* AG	1394	4.9	.0	10.0
R. 5th St. EBDX	*	150	-9	750	-9	* AG	1424	4.9	.0	10.0
S. 5th St. WBAX	*	750	9	150	9	* AG	856	4.9	.0	10.0
T. 5th St. WBDX	*	-150	9	-750	9	* AG	803	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A1A-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	17	-15	1.8
2. NW	*	-14	15	1.8
3. SW	*	-14	-17	1.8
4. NE	*	15	17	1.8
5. ES mdbl k	*	150	-15	1.8
6. WN mdbl k	*	-150	15	1.8
7. WS mdbl k	*	-150	-17	1.8
8. EN mdbl k	*	150	17	1.8
9. SE mdbl k	*	17	-150	1.8
10. NW mdbl k	*	-14	150	1.8
11. SW mdbl k	*	-14	-150	1.8
12. NE mdbl k	*	15	150	1.8
13. ES blk	*	600	-15	1.8
14. WN blk	*	-600	15	1.8
15. WS blk	*	-600	-17	1.8
16. EN blk	*	600	17	1.8
17. SE blk	*	17	-600	1.8
18. NW blk	*	-14	600	1.8
19. SW blk	*	-14	-600	1.8
20. NE blk	*	15	600	1.8

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

JOB: Upper Santa Ana River Wash
 RUN: 2007A1A-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

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

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. SR-30 SB NBA	*	2	-150	2	0	* AG	0	4.9	.0	10.0
B. SR-30 SB NBD	*	2	0	2	150	* AG	0	4.9	.0	10.0
C. SR-30 SB NBL	*	2	-150	0	0	* AG	0	4.9	.0	10.0
D. SR-30 SB SBA	*	-2	150	-2	0	* AG	100	9.2	.0	10.0
E. SR-30 SB SBD	*	-2	0	-2	-150	* AG	800	10.9	.0	10.0
F. SR-30 SB SBL	*	-2	150	0	0	* AG	249	10.9	.0	10.0
G. 5th St. EBA	*	-150	-4	0	-4	* AG	1423	9.3	.0	13.5
H. 5th St. EBD	*	0	-4	150	-4	* AG	1223	5.5	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	0	4.9	.0	10.0
J. 5th St. WBA	*	150	2	0	2	* AG	752	7.5	.0	10.0
K. 5th St. WBD	*	0	2	-150	2	* AG	852	5.2	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	351	11.0	.0	10.0
M. SR-30 S NBAX	*	2	-750	2	-150	* AG	0	4.9	.0	10.0
N. SR-30 S NBDX	*	2	150	2	750	* AG	0	4.9	.0	10.0
O. SR-30 S SBAX	*	-2	750	-2	150	* AG	349	4.9	.0	10.0
P. SR-30 S SBDX	*	-2	-150	-2	-750	* AG	800	4.9	.0	10.0
Q. 5th St. EBAX	*	-750	-4	-150	-4	* AG	1423	4.9	.0	13.5
R. 5th St. EBDX	*	150	-4	750	-4	* AG	1223	4.9	.0	10.0
S. 5th St. WBAX	*	750	2	150	2	* AG	1103	4.9	.0	10.0
T. 5th St. WBDX	*	-150	2	-750	2	* AG	852	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A1A-07 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
		X	Y	Z
1. SE	*	8	-10	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-10	1.8
4. NE	*	8	8	1.8
5. ES mdbl	*	150	-10	1.8
6. WN mdbl	*	-150	8	1.8
7. WS mdbl	*	-150	-10	1.8
8. EN mdbl	*	150	8	1.8
9. SE mdbl	*	8	-150	1.8
10. NW mdbl	*	-8	150	1.8
11. SW mdbl	*	-8	-150	1.8
12. NE mdbl	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	8	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-8	600	1.8
19. SW blk	*	-8	-600	1.8
20. NE blk	*	8	600	1.8

JUNE 1989 VERSION

JOB: Upper Santa Ana River Wash

POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 4

JOB: Upper Santa Ana River Wash
 RUN: 2007A1A-07 (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	Q	R	S	T
1. SE	*	.0	.0	.3	.0	.0	.0	.0	.0	.2	.0	.0	.2
2. NW	*	.0	.8	.0	.5	.0	.0	.0	.0	.0	.2	.1	.0
3. SW	*	.0	.5	.0	.4	.0	.0	.0	.0	.0	.1	.1	.0
4. NE	*	.0	.0	.6	.0	.0	.0	.0	.0	.1	.0	.0	.0
5. ES mdbl	*	.0	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.5	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.4
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.0
17. SE blk	*	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007A1A-08 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. SR-30 NB NBA	*	0	-150	0	0	* AG	549	11.0	.0	10.0
B. SR-30 NB NBD	*	0	0	0	150	* AG	261	5.9	.0	10.0
C. SR-30 NB NBL	*	2	-150	0	0	* AG	470	11.0	.0	10.0
D. SR-30 NB SBA	*	0	150	0	0	* AG	0	4.9	.0	10.0
E. SR-30 NB SBD	*	0	0	0	-150	* AG	0	4.9	.0	10.0
F. SR-30 NB SBL	*	-2	150	0	0	* AG	0	4.9	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	* AG	978	7.7	.0	10.0
H. 5th St. EBD	*	0	0	150	0	* AG	1527	5.8	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	134	10.1	.0	10.0
J. 5th St. WBA	*	150	0	0	0	* AG	815	7.7	.0	10.0
K. 5th St. WBD	*	0	0	-150	0	* AG	1158	5.3	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	4.9	.0	10.0
M. SR-30 N NBAX	*	0	-750	0	-150	* AG	1019	4.9	.0	10.0
N. SR-30 N NBDX	*	0	150	0	750	* AG	261	4.9	.0	10.0
O. SR-30 N SBAX	*	0	750	0	150	* AG	0	4.9	.0	10.0
P. SR-30 N SBDX	*	0	-150	0	-750	* AG	0	4.9	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	* AG	1112	4.9	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	* AG	1527	4.9	.0	10.0
S. 5th St. WBAX	*	750	0	150	0	* AG	815	4.9	.0	10.0
T. 5th St. WBDX	*	-150	0	-750	0	* AG	1158	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A1A-08 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* * * * *	* BRG (DEG)	* * * CONC (PPM)	* * * * *	CONC/LINK (PPM)							
					A	B	C	D	E	F	G	H
1. SE	*	277.	* 3.1	*	.4	.0	.3	.0	.0	.0	1.0	.0
2. NW	*	172.	* 2.7	*	.9	.0	.8	.0	.0	.0	.5	.0
3. SW	*	83.	* 3.1	*	.4	.0	.3	.0	.0	.0	.0	1.1
4. NE	*	187.	* 2.8	*	.9	.0	.8	.0	.0	.0	.0	.6
5. ES mdbl	*	276.	* 2.5	*	.0	.0	.0	.0	.0	.0	.1	1.1
6. WN mdbl	*	97.	* 2.6	*	.0	.0	.0	.0	.0	.0	1.1	.1
7. WS mdbl	*	84.	* 2.6	*	.0	.0	.0	.0	.0	.0	1.0	.1
8. EN mdbl	*	263.	* 2.6	*	.0	.0	.0	.0	.0	.0	.1	1.2
9. SE mdbl	*	352.	* 2.3	*	.9	.0	1.1	.0	.0	.0	.0	.0
10. NW mdbl	*	177.	* .8	*	.2	.2	.1	.0	.0	.0	.0	.0
11. SW mdbl	*	9.	* 1.8	*	.9	.0	.6	.0	.0	.0	.0	.1
12. NE mdbl	*	182.	* .8	*	.2	.2	.1	.0	.0	.0	.0	.0
13. ES blk	*	276.	* 2.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	* 2.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	* 2.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	* 2.0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	* 1.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	177.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	* 1.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	183.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-08 (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	Q	R	S	T
1. SE	*	.2	.0	.8	.0	.0	.0	.0	.0	.1	.0	.0	.1
2. NW	*	.0	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.9	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0
4. NE	*	.0	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.3	.1	.8	.0	.0	.0	.0	.0	.0	.1	.0	.0
8. EN mdbl	*	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.7	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.7	.0
17. SE blk	*	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007A1A-09 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK		* LINK COORDINATES (M) *						EF	H	W
DESCRIPTION		* X1	Y1	X2	Y2	* TYPE	VPH	(G/MT)	(M)	(M)
A. Boulder	NBA *	0	-150	0	0	* AG	389	9.2	.0	13.5
B. Boulder	NBD *	0	0	0	150	* AG	486	5.9	.0	10.0
C. Boulder	NBL *	2	-150	0	0	* AG	174	10.1	.0	10.0
D. Boulder	SBA *	0	150	0	0	* AG	202	9.6	.0	10.0
E. Boulder	SBD *	0	0	0	-150	* AG	492	8.6	.0	10.0
F. Boulder	SBL *	-2	150	0	0	* AG	137	10.1	.0	10.0
G. 5th St.	EBA *	-150	0	0	0	* AG	1311	8.5	.0	13.5
H. 5th St.	EBD *	0	0	150	0	* AG	1193	5.3	.0	10.0
I. 5th St.	EBL *	-150	-2	0	0	* AG	41	10.1	.0	10.0
J. 5th St.	WBA *	150	0	0	0	* AG	624	7.5	.0	13.5
K. 5th St.	WBD *	0	0	-150	0	* AG	737	5.2	.0	10.0
L. 5th St.	WBL *	150	2	0	0	* AG	30	10.1	.0	10.0
M. Boulder	NBAX *	0	-750	0	-150	* AG	563	4.9	.0	13.5
N. Boulder	NBDX *	0	150	0	750	* AG	486	4.9	.0	10.0
O. Boulder	SBAX *	0	750	0	150	* AG	339	4.9	.0	10.0
P. Boulder	SBDX *	0	-150	0	-750	* AG	492	4.9	.0	10.0
Q. 5th St.	EBAX *	-750	0	-150	0	* AG	1352	4.9	.0	13.5
R. 5th St.	EBDX *	150	0	750	0	* AG	1193	4.9	.0	10.0
S. 5th St.	WBAX *	750	0	150	0	* AG	654	4.9	.0	13.5
T. 5th St.	WBDX *	-150	0	-750	0	* AG	737	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A1A-09 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl k	*	150	-7	1.8
6. WN mdbl k	*	-150	7	1.8
7. WS mdbl k	*	-150	-7	1.8
8. EN mdbl k	*	150	7	1.8
9. SE mdbl k	*	7	-150	1.8
10. NW mdbl k	*	-7	150	1.8
11. SW mdbl k	*	-7	-150	1.8
12. NE mdbl k	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-09 (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. SE	*	276.	*	3.2	*	.2	.0	.1	.0	.3	.0	1.5	.0
2. NW	*	173.	*	2.7	*	.6	.0	.3	.0	.6	.0	.8	.0
3. SW	*	84.	*	2.8	*	.2	.0	.1	.0	.3	.0	.3	.8
4. NE	*	264.	*	3.0	*	.0	.2	.0	.1	.0	.0	1.5	.0
5. ES mdbl	*	275.	*	2.3	*	.0	.0	.0	.0	.0	.0	.2	.8
6. WN mdbl	*	96.	*	2.9	*	.0	.0	.0	.0	.0	.0	1.8	.1
7. WS mdbl	*	84.	*	2.9	*	.0	.0	.0	.0	.0	.0	1.8	.1
8. EN mdbl	*	265.	*	2.3	*	.0	.0	.0	.0	.0	.0	.2	.8
9. SE mdbl	*	354.	*	2.1	*	.6	.0	.4	.0	.6	.0	.1	.0
10. NW mdbl	*	175.	*	1.6	*	.0	.4	.0	.3	.1	.3	.0	.0
11. SW mdbl	*	6.	*	1.9	*	.6	.0	.2	.0	.6	.0	.0	.0
12. NE mdbl	*	185.	*	1.4	*	.0	.4	.0	.3	.1	.2	.1	.0
13. ES blk	*	275.	*	1.8	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	95.	*	2.1	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	85.	*	2.1	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	*	1.8	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	355.	*	1.2	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	175.	*	.9	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	5.	*	1.2	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	185.	*	1.0	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-09 (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	Q	R	S	T
1. SE	*	.0	.1	.5	.0	.0	.0	.0	.0	.2	.0	.0	.1
2. NW	*	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.7	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0
4. NE	*	.0	.1	.5	.0	.0	.0	.0	.0	.2	.0	.0	.1
5. ES mdbl	*	.0	.8	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
6. WN mdbl	*	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.8	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.6	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.6
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.6
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.6	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	.0

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

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 366. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W	
DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	(M)
-----*											
A. Orange S NBA	*	0	-150	0	0	*	AG	1039	11.0	.0	10.0
B. Orange S NBD	*	0	0	0	150	*	AG	1031	9.5	.0	10.0
C. Orange S NBL	*	2	-150	0	0	*	AG	1	10.1	.0	10.0
D. Orange S SBA	*	0	150	0	0	*	AG	606	10.0	.0	10.0
E. Orange S SBD	*	0	0	0	-150	*	AG	615	6.1	.0	10.0
F. Orange S SBL	*	-2	150	0	0	*	AG	0	4.9	.0	10.0
G. Cemex Ac EBA	*	-150	0	0	0	*	AG	12	8.1	.0	10.0
H. Cemex Ac EBD	*	0	0	150	0	*	AG	20	5.8	.0	10.0
I. Cemex Ac EBL	*	-150	-2	0	0	*	AG	0	5.3	.0	10.0
J. Cemex Ac WBA	*	150	0	0	0	*	AG	16	8.1	.0	10.0
K. Cemex Ac WBD	*	0	0	-150	0	*	AG	16	5.8	.0	10.0
L. Cemex Ac WBL	*	150	2	0	0	*	AG	8	10.1	.0	10.0
M. Orange NBAX	*	0	-750	0	-150	*	AG	1040	4.9	.0	10.0
N. Orange NBDX	*	0	150	0	750	*	AG	1031	4.9	.0	10.0
O. Orange SBAX	*	0	750	0	150	*	AG	606	4.9	.0	10.0
P. Orange SBDX	*	0	-150	0	-750	*	AG	615	4.9	.0	10.0
Q. Cemex A EBAX	*	-750	0	-150	0	*	AG	12	5.3	.0	10.0
R. Cemex A EBDX	*	150	0	750	0	*	AG	20	5.3	.0	10.0
S. Cemex A WBAX	*	750	0	150	0	*	AG	24	5.3	.0	10.0
T. Cemex A WBDX	*	-150	0	-750	0	*	AG	16	5.3	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A1A-10 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007A1A-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*		* PRED	*	CONC/LINK							
	*	BRG	* CONC	*	(PPM)							
	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
	*		*	*								
1. SE	*	353.	*	2.5	*	.0	1.3	.0	.9	.0	.0	.0
2. NW	*	8.	*	2.5	*	.0	1.4	.0	.9	.0	.0	.0
3. SW	*	7.	*	2.4	*	.0	1.3	.0	.9	.0	.0	.0
4. NE	*	352.	*	2.5	*	.0	1.4	.0	.9	.0	.0	.0
5. ES mdbl	*	276.	*	.3	*	.0	.1	.0	.0	.0	.0	.0
6. WN mdbl	*	93.	*	.3	*	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	86.	*	.3	*	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	266.	*	.3	*	.1	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	353.	*	2.5	*	1.6	.1	.0	.1	.6	.0	.0
10. NW mdbl	*	173.	*	2.6	*	.2	1.4	.0	.9	.0	.0	.0
11. SW mdbl	*	7.	*	2.5	*	1.6	.1	.0	.1	.6	.0	.0
12. NE mdbl	*	187.	*	2.6	*	.2	1.4	.0	.9	.0	.0	.0
13. ES blk	*	273.	*	.2	*	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	92.	*	.2	*	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	87.	*	.2	*	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	267.	*	.2	*	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	1.5	*	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	1.5	*	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	1.5	*	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	1.5	*	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 4

JOB: Upper Santa Ana River Wash
 RUN: 2007A1A-10 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.8	.0	.0	.5	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.8	.5	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.8	.0	.0	.5	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.8	.5	.0	.0	.0	.0	.0

**UPPER SANTA ANA RIVER WASH
AIR QUALITY CO HOT SPOT ANALYSIS
CALINE4 MODEL PRINTOUTS
OPENING YEAR (YEAR 2007) LAND USE ALTERNATIVE 2 WITH PROJECT**

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: 2007A2-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	2	-150	2	0	* AG	1266	10.0	.0	10.0
B. Palm Ave NBD	*	2	0	2	150	* AG	658	5.4	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	42	10.1	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	172	7.9	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	391	5.3	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	89	10.1	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	* AG	542	8.0	.0	10.0
H. 5th St. EBD	*	0	0	150	0	* AG	1396	6.1	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	57	10.1	.0	10.0
J. 5th St. WBA	*	150	5	0	5	* AG	555	8.0	.0	10.0
K. 5th St. WBD	*	0	5	-150	5	* AG	469	5.3	.0	10.0
L. 5th St. WBL	*	150	5	0	0	* AG	191	10.1	.0	10.0
M. Palm Av NBAX	*	2	-750	2	-150	* AG	1308	4.9	.0	10.0
N. Palm Av NBDX	*	2	150	2	750	* AG	658	4.9	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	261	4.9	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	391	4.9	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	* AG	599	4.9	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	* AG	1396	4.9	.0	10.0
S. 5th St. WBAX	*	750	5	150	5	* AG	746	4.9	.0	10.0
T. 5th St. WBDX	*	-150	5	-750	5	* AG	469	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A2-01 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	8	-7	1.8
2. NW	*	-12	12	1.8
3. SW	*	-12	-7	1.8
4. NE	*	8	12	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	12	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	12	1.8
9. SE mdbl	*	8	-150	1.8
10. NW mdbl	*	-12	150	1.8
11. SW mdbl	*	-12	-150	1.8
12. NE mdbl	*	8	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	12	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	12	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	8	600	1.8

JOB: Upper Santa Ana River Wash
RUN: 2007A2-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A2-01 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.6	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0
3. SW	*	.0	.4	.0	.3	.0	.0	.0	.0	.0	.2	.1	.0
4. NE	*	.0	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. WS mdbl	*	.1	.1	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0
8. EN mdbl	*	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.4	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.4
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.2
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0
17. SE blk	*	.0	.0	.0	.0	1.0	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007A2-02 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	718	7.5	.0	10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	1315	5.5	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	69	10.1	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	390	7.2	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	460	5.2	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	1	10.1	.0	10.0
G. 3rd St. EBA	*	-150	-7	0	-7	* AG	160	9.3	.0	10.0
H. 3rd St. EBD	*	0	-7	150	-7	* AG	6	6.2	.0	10.0
I. 3rd St. EBL	*	-150	-5	0	0	* AG	579	10.9	.0	10.0
J. 3rd St. WBA	*	150	4	0	4	* AG	23	9.3	.0	10.0
K. 3rd St. WBD	*	0	4	-150	4	* AG	163	6.2	.0	10.0
L. 3rd St. WBL	*	150	2	0	0	* AG	4	10.1	.0	10.0
M. Palm Av NEAX	*	0	-750	0	-150	* AG	787	4.9	.0	10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	1315	4.9	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	391	4.9	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	460	4.9	.0	10.0
Q. 3rd St. EBAX	*	-750	-7	-150	-7	* AG	739	5.3	.0	10.0
R. 3rd St. EBDX	*	150	-7	750	-7	* AG	6	5.3	.0	10.0
S. 3rd St. WBAX	*	750	4	150	4	* AG	27	5.3	.0	10.0
T. 3rd St. WBDX	*	-150	4	-750	4	* AG	163	5.3	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A2-02 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-14	1.8
2. NW	*	-12	10	1.8
3. SW	*	-12	-14	1.8
4. NE	*	7	10	1.8
5. ES mdbl	*	150	-14	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-12	150	1.8
11. SW mdbl	*	-12	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	7	600	1.8

JOB: Upper Santa Ana River Wash
RUN: 2007A2-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A2-02 (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	Q	R	S	T
1. SE	*	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
4. NE	*	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.2
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	1.0	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: 2007A2-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	2	-150	2	0	* AG	754	9.3	.0	10.0
B. Palm Ave NBD	*	2	0	2	150	* AG	788	5.8	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	4.9	.0	10.0
D. Palm Ave SBA	*	0	150	0	0	* AG	408	7.7	.0	10.0
E. Palm Ave SBD	*	0	0	0	-150	* AG	411	5.2	.0	10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	52	10.1	.0	10.0
G. Robertso EBA	*	-150	-4	0	-4	* AG	0	5.3	.0	10.0
H. Robertso EBD	*	0	-4	150	-4	* AG	52	6.2	.0	10.0
I. Robertso EBL	*	-150	-2	0	0	* AG	0	5.3	.0	10.0
J. Robertso WBA	*	150	4	0	4	* AG	34	9.3	.0	10.0
K. Robertso WBD	*	0	4	-150	4	* AG	0	5.3	.0	10.0
L. Robertso WBL	*	150	2	0	0	* AG	3	10.1	.0	10.0
M. Palm Av NBAX	*	2	-750	2	-150	* AG	754	4.9	.0	10.0
N. Palm Av NBDX	*	2	150	2	750	* AG	788	4.9	.0	10.0
O. Palm Av SBAX	*	0	750	0	150	* AG	460	4.9	.0	10.0
P. Palm Av SBDX	*	0	-150	0	-750	* AG	411	4.9	.0	10.0
Q. Roberts EBAX	*	-750	-4	-150	-4	* AG	0	5.3	.0	10.0
R. Roberts EBDX	*	150	-4	750	-4	* AG	52	5.3	.0	10.0
S. Roberts WBAX	*	750	4	150	4	* AG	37	5.3	.0	10.0
T. Roberts WBDX	*	-150	4	-750	4	* AG	0	5.3	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A2-03 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	8	-10	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-10	1.8
4. NE	*	8	10	1.8
5. ES mdbl k	*	150	-10	1.8
6. WN mdbl k	*	-150	10	1.8
7. WS mdbl k	*	-150	-10	1.8
8. EN mdbl k	*	150	10	1.8
9. SE mdbl k	*	8	-150	1.8
10. NW mdbl k	*	-7	150	1.8
11. SW mdbl k	*	-7	-150	1.8
12. NE mdbl k	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	8	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007A2-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* * * *	BRG (DEG)	* * * *	PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. SE	*	188.	*	1.4 *	1.0	.0	.0	.0	.3	.0	.0	.0
2. NW	*	172.	*	1.3 *	.8	.0	.0	.0	.3	.0	.0	.0
3. SW	*	172.	*	1.3 *	.8	.0	.0	.0	.3	.0	.0	.0
4. NE	*	187.	*	1.4 *	.9	.0	.0	.0	.3	.0	.0	.0
5. ES mdbl	*	280.	*	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	92.	*	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	88.	*	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	260.	*	.3 *	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	353.	*	1.5 *	1.0	.0	.0	.0	.2	.0	.0	.0
10. NW mdbl	*	174.	*	1.4 *	.1	.5	.0	.5	.0	.1	.0	.0
11. SW mdbl	*	7.	*	1.3 *	.8	.0	.0	.0	.3	.0	.0	.0
12. NE mdbl	*	186.	*	1.4 *	.1	.6	.0	.3	.0	.0	.0	.0
13. ES blk	*	275.	*	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	91.	*	.1 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	90.	*	.1 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	265.	*	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	1.0 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	1.0 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	1.0 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	1.1 *	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A2-03 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.3	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.5	.4	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.5	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0

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

JOB: Upper Santa Ana River Wash
RUN: 2007A2-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	725	9.3	.0	10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	754	5.8	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	4.9	.0	10.0
D. Palm Ave SBA	*	-4	150	-4	0	* AG	392	7.5	.0	10.0
E. Palm Ave SBD	*	-4	0	-4	-150	* AG	398	5.2	.0	10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	19	10.1	.0	10.0
G. Cemex Ac EBA	*	-150	-5	0	-5	* AG	0	5.3	.0	10.0
H. Cemex Ac EBD	*	0	-5	150	-5	* AG	20	6.2	.0	10.0
I. Cemex Ac EBL	*	-150	-2	0	0	* AG	0	5.3	.0	10.0
J. Cemex Ac WBA	*	150	7	0	7	* AG	30	9.3	.0	10.0
K. Cemex Ac WBD	*	0	7	-150	7	* AG	0	5.3	.0	10.0
L. Cemex Ac WBL	*	150	5	0	0	* AG	6	10.1	.0	10.0
M. Palm Av NBAX	*	0	-750	0	-150	* AG	725	4.9	.0	10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	754	4.9	.0	10.0
O. Palm Av SBAX	*	-4	750	-4	150	* AG	411	4.9	.0	10.0
P. Palm Av SBDX	*	-4	-150	-4	-750	* AG	398	4.9	.0	10.0
Q. Cemex A EBAX	*	-750	-5	-150	-5	* AG	0	5.3	.0	10.0
R. Cemex A EBDX	*	150	-5	750	-5	* AG	20	5.3	.0	10.0
S. Cemex A WBAX	*	750	7	150	7	* AG	36	5.3	.0	10.0
T. Cemex A WBDX	*	-150	7	-750	7	* AG	0	5.3	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A2-04 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	7	-12	1.8
2. NW	*	-10	14	1.8
3. SW	*	-10	-14	1.8
4. NE	*	7	14	1.8
5. ES mdbl	*	150	-12	1.8
6. WN mdbl	*	-150	14	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	14	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-10	150	1.8
11. SW mdbl	*	-10	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-12	1.8
14. WN blk	*	-600	14	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	14	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-10	600	1.8
19. SW blk	*	-10	-600	1.8
20. NE blk	*	7	600	1.8

JOB: Upper Santa Ana River Wash
RUN: 2007A2-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A2-04 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007A2-05 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Church A NBA	*	5	-150	5	0	* AG	0	4.9	.0	10.0
B. Church A NBD	*	5	0	5	150	* AG	200	5.7	.0	10.0
C. Church A NBL	*	5	-150	0	0	* AG	0	4.9	.0	10.0
D. Church A SBA	*	0	150	0	0	* AG	25	9.2	.0	10.0
E. Church A SBD	*	0	0	0	-150	* AG	0	4.9	.0	10.0
F. Church A SBL	*	-2	150	0	0	* AG	76	10.1	.0	10.0
G. 5th St. EBA	*	-150	-7	0	-7	* AG	1333	8.5	.0	10.0
H. 5th St. EBD	*	0	-7	150	-7	* AG	1409	5.8	.0	10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	63	10.1	.0	10.0
J. 5th St. WBA	*	150	4	0	4	* AG	850	7.7	.0	10.0
K. 5th St. WBD	*	0	4	-150	4	* AG	738	5.2	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	4.9	.0	10.0
M. Church NBAX	*	5	-750	5	-150	* AG	0	4.9	.0	10.0
N. Church NBDX	*	5	150	5	750	* AG	200	4.9	.0	10.0
O. Church SBAX	*	0	750	0	150	* AG	101	4.9	.0	10.0
P. Church SBDX	*	0	-150	0	-750	* AG	0	4.9	.0	10.0
Q. 5th St. EBAX	*	-750	-7	-150	-7	* AG	1396	4.9	.0	10.0
R. 5th St. EBDX	*	150	-7	750	-7	* AG	1409	4.9	.0	10.0
S. 5th St. WBAX	*	750	4	150	4	* AG	850	4.9	.0	10.0
T. 5th St. WBDX	*	-150	4	-750	4	* AG	738	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
RUN: 2007A2-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	12	-14	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-14	1.8
4. NE	*	12	10	1.8
5. ES mdbl	*	150	-14	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	12	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	12	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	12	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	12	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 3

JOB: Upper Santa Ana River Wash

RUN: 2007A2-05 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		* PRED	*	CONC/LINK							
	*	BRG	* CONC	*	(PPM)							
RECEPTOR	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
	*		*	*								
1. SE	*	278.	*	2.0	*	.0	.0	.0	.0	.0	1.3	.2
2. NW	*	98.	*	1.7	*	.0	.0	.0	.0	.0	.0	.4
3. SW	*	278.	*	2.1	*	.0	.0	.0	.0	.0	1.6	.0
4. NE	*	261.	*	1.7	*	.0	.0	.0	.0	.0	.6	.0
5. ES mdbl	*	277.	*	1.8	*	.0	.0	.0	.0	.0	.2	1.1
6. WN mdbl	*	98.	*	1.5	*	.0	.0	.0	.0	.0	.5	.2
7. WS mdbl	*	82.	*	2.3	*	.0	.0	.0	.0	.0	1.6	.0
8. EN mdbl	*	263.	*	1.8	*	.0	.0	.0	.0	.0	.2	.3
9. SE mdbl	*	358.	*	.4	*	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	172.	*	.6	*	.0	.1	.0	.0	.0	.2	.0
11. SW mdbl	*	2.	*	.4	*	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	191.	*	.5	*	.0	.2	.0	.0	.0	.1	.0
13. ES blk	*	277.	*	1.6	*	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	*	1.2	*	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	*	1.5	*	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	263.	*	1.3	*	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	359.	*	.2	*	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.4	*	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	360.	*	.2	*	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	.4	*	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A2-05 (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	Q	R	S	T
1. SE	*	.0	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.1
2. NW	*	.0	.9	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
3. SW	*	.0	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.1
4. NE	*	.0	.2	.5	.0	.0	.0	.0	.0	.2	.0	.0	.0
5. ES mdbl	*	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.9	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.3	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.6
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.3
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.7	.0
17. SE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007A2-06 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*	EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)
A. Truck Ac NBA	*	9	-150	9	0	* AG	0	4.9	.0 10.0
B. Truck Ac NBD	*	9	0	9	150	* AG	0	4.9	.0 10.0
C. Truck Ac NBL	*	5	-150	0	0	* AG	0	4.9	.0 10.0
D. Truck Ac SBA	*	-7	150	-7	0	* AG	0	4.9	.0 10.0
E. Truck Ac SBD	*	-7	0	-7	-150	* AG	0	4.9	.0 10.0
F. Truck Ac SBL	*	-5	150	0	0	* AG	0	4.9	.0 10.0
G. 5th St. EBA	*	-150	-9	0	-9	* AG	0	4.9	.0 10.0
H. 5th St. EBD	*	0	-9	150	-9	* AG	0	4.9	.0 10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	0	4.9	.0 10.0
J. 5th St. WBA	*	150	9	0	9	* AG	0	4.9	.0 10.0
K. 5th St. WBD	*	0	9	-150	9	* AG	0	4.9	.0 10.0
L. 5th St. WBL	*	150	5	0	0	* AG	0	4.9	.0 10.0
M. Truck A NBAX	*	9	-750	9	-150	* AG	0	4.9	.0 10.0
N. Truck A NBDX	*	9	150	9	750	* AG	0	4.9	.0 10.0
O. Truck A SBAX	*	-7	750	-7	150	* AG	0	4.9	.0 10.0
P. Truck A SBDX	*	-7	-150	-7	-750	* AG	0	4.9	.0 10.0
Q. 5th St. EBAX	*	-750	-9	-150	-9	* AG	0	4.9	.0 10.0
R. 5th St. EBDX	*	150	-9	750	-9	* AG	0	4.9	.0 10.0
S. 5th St. WBAX	*	750	9	150	9	* AG	0	4.9	.0 10.0
T. 5th St. WBDX	*	-150	9	-750	9	* AG	0	4.9	.0 10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A2-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
		X	Y	Z
1. SE	*	17	-15	1.8
2. NW	*	-14	15	1.8
3. SW	*	-14	-17	1.8
4. NE	*	15	17	1.8
5. ES mdbl k	*	150	-15	1.8
6. WN mdbl k	*	-150	15	1.8
7. WS mdbl k	*	-150	-17	1.8
8. EN mdbl k	*	150	17	1.8
9. SE mdbl k	*	17	-150	1.8
10. NW mdbl k	*	-14	150	1.8
11. SW mdbl k	*	-14	-150	1.8
12. NE mdbl k	*	15	150	1.8
13. ES blk	*	600	-15	1.8
14. WN blk	*	-600	15	1.8
15. WS blk	*	-600	-17	1.8
16. EN blk	*	600	17	1.8
17. SE blk	*	17	-600	1.8
18. NW blk	*	-14	600	1.8
19. SW blk	*	-14	-600	1.8
20. NE blk	*	15	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007A2-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* * * (DEG)	* * * (PPM)	* * * (PPM)	CONC/LINK (PPM)							
				A	B	C	D	E	F	G	H
1. SE	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl k	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl k	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl k	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl k	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl k	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl k	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl k	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl k	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	0.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Upper Santa Ana River Wash
 RUN: 2007A2-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

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

JOB: Upper Santa Ana River Wash
RUN: 2007A2-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. SR-30 SB NBA	*	2	-150	2	0	* AG	0	4.9	.0	10.0
B. SR-30 SB NBD	*	2	0	2	150	* AG	0	4.9	.0	10.0
C. SR-30 SB NBL	*	2	-150	0	0	* AG	0	4.9	.0	10.0
D. SR-30 SB SBA	*	-2	150	-2	0	* AG	99	9.2	.0	10.0
E. SR-30 SB SBD	*	-2	0	-2	-150	* AG	805	11.0	.0	10.0
F. SR-30 SB SBL	*	-2	150	0	0	* AG	252	10.9	.0	10.0
G. 5th St. EBA	*	-150	-4	0	-4	* AG	1410	9.3	.0	13.5
H. 5th St. EBD	*	0	-4	150	-4	* AG	1224	5.5	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	0	4.9	.0	10.0
J. 5th St. WBA	*	150	2	0	2	* AG	746	7.5	.0	10.0
K. 5th St. WBD	*	0	2	-150	2	* AG	845	5.2	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	367	11.0	.0	10.0
M. SR-30 S NBAX	*	2	-750	2	-150	* AG	0	4.9	.0	10.0
N. SR-30 S NBDX	*	2	150	2	750	* AG	0	4.9	.0	10.0
O. SR-30 S SBAX	*	-2	750	-2	150	* AG	351	4.9	.0	10.0
P. SR-30 S SBDX	*	-2	-150	-2	-750	* AG	805	4.9	.0	10.0
Q. 5th St. EBAX	*	-750	-4	-150	-4	* AG	1410	4.9	.0	13.5
R. 5th St. EBDX	*	150	-4	750	-4	* AG	1224	4.9	.0	10.0
S. 5th St. WBAX	*	750	2	150	2	* AG	1113	4.9	.0	10.0
T. 5th St. WBDX	*	-150	2	-750	2	* AG	845	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A2-07 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. SE	*	8	-10	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-10	1.8
4. NE	*	8	8	1.8
5. ES mdbl	*	150	-10	1.8
6. WN mdbl	*	-150	8	1.8
7. WS mdbl	*	-150	-10	1.8
8. EN mdbl	*	150	8	1.8
9. SE mdbl	*	8	-150	1.8
10. NW mdbl	*	-8	150	1.8
11. SW mdbl	*	-8	-150	1.8
12. NE mdbl	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	8	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-8	600	1.8
19. SW blk	*	-8	-600	1.8
20. NE blk	*	8	600	1.8

JUNE 1989 VERSION

JOB: Upper Santa Ana River Wash

POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 4

JOB: Upper Santa Ana River Wash
 RUN: 2007A2-07 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

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

		CONC/LINK (PPM)											
RECEPTOR		I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	*	.0	.0	.3	.0	.0	.0	.0	.0	.2	.0	.0	.2
2. NW	*	.0	.8	.0	.5	.0	.0	.0	.0	.0	.2	.1	.0
3. SW	*	.0	.4	.0	.4	.0	.0	.0	.0	.0	.1	.1	.0
4. NE	*	.0	.0	.6	.0	.0	.0	.0	.0	.1	.0	.0	.0
5. ES mdbl	k	.0	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	k	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	k	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	k	.0	.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	k	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	k	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	k	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	k	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.5	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.4
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.0
17. SE blk	*	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007A2-08 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*	EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)
A. SR-30 NB NBA	*	0	-150	0	0	* AG	561	11.0	.0 10.0
B. SR-30 NB NBD	*	0	0	0	150	* AG	262	5.9	.0 10.0
C. SR-30 NB NBL	*	2	-150	0	0	* AG	463	11.0	.0 10.0
D. SR-30 NB SBA	*	0	150	0	0	* AG	0	4.9	.0 10.0
E. SR-30 NB SBD	*	0	0	0	-150	* AG	0	4.9	.0 10.0
F. SR-30 NB SBL	*	-2	150	0	0	* AG	0	4.9	.0 10.0
G. 5th St. EBA	*	-150	0	0	0	* AG	983	7.7	.0 10.0
H. 5th St. EBD	*	0	0	150	0	* AG	1544	5.8	.0 10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	130	10.1	.0 10.0
J. 5th St. WBA	*	150	0	0	0	* AG	837	7.7	.0 10.0
K. 5th St. WBD	*	0	0	-150	0	* AG	1168	5.3	.0 10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	4.9	.0 10.0
M. SR-30 N NBAX	*	0	-750	0	-150	* AG	1024	4.9	.0 10.0
N. SR-30 N NBDX	*	0	150	0	750	* AG	262	4.9	.0 10.0
O. SR-30 N SBAX	*	0	750	0	150	* AG	0	4.9	.0 10.0
P. SR-30 N SBDX	*	0	-150	0	-750	* AG	0	4.9	.0 10.0
Q. 5th St. EBAX	*	-750	0	-150	0	* AG	1113	4.9	.0 10.0
R. 5th St. EBDX	*	150	0	750	0	* AG	1544	4.9	.0 10.0
S. 5th St. WBAX	*	750	0	150	0	* AG	837	4.9	.0 10.0
T. 5th St. WBDX	*	-150	0	-750	0	* AG	1168	4.9	.0 10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A2-08 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

JOB: Upper Santa Ana River Wash
RUN: 2007A2-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A2-08 (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	Q	R	S	T
1. SE	*	.2	.0	.8	.0	.0	.0	.0	.0	.1	.0	.0	.1
2. NW	*	.0	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.9	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0
4. NE	*	.0	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.2	.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.3	.1	.8	.0	.0	.0	.0	.0	.0	.1	.0	.0
8. EN mdbl	*	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.7	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.7	.0
17. SE blk	*	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2007A2-09 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK		* LINK COORDINATES (M)						EF	H	W
DESCRIPTION		X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Boulder	NBA *	0	-150	0	0	* AG	389	9.2	.0	13.5
B. Boulder	NBD *	0	0	0	150	* AG	486	5.9	.0	10.0
C. Boulder	NBL *	2	-150	0	0	* AG	197	10.1	.0	10.0
D. Boulder	SBA *	0	150	0	0	* AG	203	9.6	.0	10.0
E. Boulder	SBD *	0	0	0	-150	* AG	510	10.1	.0	10.0
F. Boulder	SBL *	-2	150	0	0	* AG	137	10.1	.0	10.0
G. 5th St.	EBA *	-150	0	0	0	* AG	1328	8.5	.0	13.5
H. 5th St.	EBD *	0	0	150	0	* AG	1193	5.3	.0	10.0
I. 5th St.	EBL *	-150	-2	0	0	* AG	41	10.1	.0	10.0
J. 5th St.	WBA *	150	0	0	0	* AG	624	7.5	.0	13.5
K. 5th St.	WBD *	0	0	-150	0	* AG	760	5.2	.0	10.0
L. 5th St.	WBL *	150	2	0	0	* AG	30	10.1	.0	10.0
M. Boulder	NBAX *	0	-750	0	-150	* AG	586	4.9	.0	13.5
N. Boulder	NBDX *	0	150	0	750	* AG	486	4.9	.0	10.0
O. Boulder	SBAX *	0	750	0	150	* AG	340	4.9	.0	10.0
P. Boulder	SBDX *	0	-150	0	-750	* AG	510	4.9	.0	10.0
Q. 5th St.	EBAX *	-750	0	-150	0	* AG	1369	4.9	.0	13.5
R. 5th St.	EBDX *	150	0	750	0	* AG	1193	4.9	.0	10.0
S. 5th St.	WBAX *	750	0	150	0	* AG	654	4.9	.0	13.5
T. 5th St.	WBDX *	-150	0	-750	0	* AG	760	4.9	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A2-09 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
		X	Y	Z
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

JOB: Upper Santa Ana River Wash
RUN: 2007A2-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A2-09 (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	Q	R	S	T
1. SE	*	.0	.1	.5	.0	.0	.0	.0	.0	.2	.0	.0	.1
2. NW	*	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.7	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0
4. NE	*	.0	.1	.5	.0	.0	.0	.0	.0	.2	.0	.0	.1
5. ES mdbl	*	.0	.8	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
6. WN mdbl	*	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.8	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.6	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.6
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.6
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.6	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
 RUN: 2007A2-10 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*	EF	H	W	
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Orange S NBA	*	0	-150	0	0	* AG	1040	11.0	.0	10.0
B. Orange S NBD	*	0	0	0	150	* AG	1054	9.5	.0	10.0
C. Orange S NBL	*	2	-150	0	0	* AG	1	10.1	.0	10.0
D. Orange S SBA	*	0	150	0	0	* AG	606	10.0	.0	10.0
E. Orange S SBD	*	0	0	0	-150	* AG	616	6.1	.0	10.0
F. Orange S SBL	*	-2	150	0	0	* AG	17	10.1	.0	10.0
G. Cemex Ac EBA	*	-150	0	0	0	* AG	3	8.1	.0	10.0
H. Cemex Ac EBD	*	0	0	150	0	* AG	29	5.8	.0	10.0
I. Cemex Ac EBL	*	-150	-2	0	0	* AG	0	5.3	.0	10.0
J. Cemex Ac WBA	*	150	0	0	0	* AG	24	8.1	.0	10.0
K. Cemex Ac WBD	*	0	0	-150	0	* AG	1	5.8	.0	10.0
L. Cemex Ac WBL	*	150	2	0	0	* AG	9	10.1	.0	10.0
M. Orange NBAX	*	0	-750	0	-150	* AG	1041	4.9	.0	10.0
N. Orange NBDX	*	0	150	0	750	* AG	1054	4.9	.0	10.0
O. Orange SBAX	*	0	750	0	150	* AG	623	4.9	.0	10.0
P. Orange SBDX	*	0	-150	0	-750	* AG	616	4.9	.0	10.0
Q. Cemex A EBAX	*	-750	0	-150	0	* AG	3	5.3	.0	10.0
R. Cemex A EBDX	*	150	0	750	0	* AG	29	5.3	.0	10.0
S. Cemex A WBAX	*	750	0	150	0	* AG	33	5.3	.0	10.0
T. Cemex A WBDX	*	-150	0	-750	0	* AG	1	5.3	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2007A2-10 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2007A2-10 (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. SE	*	353.	* 2.5 *	*	.0	1.3	.0	.9	.0	.0	.0	.0
2. NW	*	8.	* 2.6 *	*	.0	1.4	.0	.9	.0	.0	.0	.0
3. SW	*	7.	* 2.5 *	*	.0	1.3	.0	.9	.0	.0	.0	.0
4. NE	*	352.	* 2.6 *	*	.0	1.4	.0	.9	.0	.0	.0	.0
5. ES mdbl	*	278.	* .3 *	*	.0	.1	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	91.	* .3 *	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	88.	* .3 *	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	263.	* .3 *	*	.1	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	353.	* 2.5 *	*	1.6	.1	.0	.1	.6	.0	.0	.0
10. NW mdbl	*	173.	* 2.7 *	*	.2	1.4	.0	.9	.0	.0	.0	.0
11. SW mdbl	*	7.	* 2.5 *	*	1.6	.1	.0	.1	.6	.0	.0	.0
12. NE mdbl	*	187.	* 2.7 *	*	.2	1.4	.0	.9	.0	.0	.0	.0
13. ES blk	*	274.	* .3 *	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	90.	* .2 *	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	88.	* .2 *	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	267.	* .2 *	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	* 1.5 *	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	* 1.5 *	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	* 1.5 *	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	* 1.5 *	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2007A2-10 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.8	.0	.0	.5	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.8	.5	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.8	.0	.0	.5	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.8	.5	.0	.0	.0	.0	.0

**UPPER SANTA ANA RIVER WASH
AIR QUALITY CO HOT SPOT ANALYSIS
CALINE4 MODEL PRINTOUTS
FUTURE YEAR (YEAR 2030) BASELINE**

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030Base-01 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*	EF	H	W	
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	2	-150	2	0	* AG	2578	1.7	.0	10.0
B. Palm Ave NBD	*	2	0	2	150	* AG	1218	1.1	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	177	1.7	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	374	1.4	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	850	1.1	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	56	1.7	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	* AG	1014	1.5	.0	10.0
H. 5th St. EBD	*	0	0	150	0	* AG	2407	1.6	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	94	1.7	.0	10.0
J. 5th St. WBA	*	150	5	0	5	* AG	714	1.4	.0	10.0
K. 5th St. WBD	*	0	5	-150	5	* AG	841	1.1	.0	10.0
L. 5th St. WBL	*	150	5	0	0	* AG	309	1.7	.0	10.0
M. Palm Av NBAX	*	2	-750	2	-150	* AG	2755	1.0	.0	10.0
N. Palm Av NBDX	*	2	150	2	750	* AG	1218	1.0	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	430	1.0	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	850	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	* AG	1108	1.0	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	* AG	2407	1.0	.0	10.0
S. 5th St. WBAX	*	750	5	150	5	* AG	1023	1.0	.0	10.0
T. 5th St. WBDX	*	-150	5	-750	5	* AG	841	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-01 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*			
1. SE	*	8	-7	1.8
2. NW	*	-12	12	1.8
3. SW	*	-12	-7	1.8
4. NE	*	8	12	1.8
5. ES mdbl k	*	150	-7	1.8
6. WN mdbl k	*	-150	12	1.8
7. WS mdbl k	*	-150	-7	1.8
8. EN mdbl k	*	150	12	1.8
9. SE mdbl k	*	8	-150	1.8
10. NW mdbl k	*	-12	150	1.8
11. SW mdbl k	*	-12	-150	1.8
12. NE mdbl k	*	8	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	12	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	12	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	8	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030Base-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*		* PRED	*	CONC/LINK								
	*	BRG	* CONC	*	(PPM)								
	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H	

1. SE	*	279.	*	.7	*	.3	.0	.0	.0	.0	.0	.2	.0
2. NW	*	171.	*	.6	*	.2	.0	.0	.0	.1	.0	.0	.0
3. SW	*	82.	*	.9	*	.2	.0	.0	.0	.0	.0	.0	.4
4. NE	*	187.	*	.9	*	.4	.0	.0	.0	.0	.0	.0	.2
5. ES mdbl	*	278.	*	.7	*	.0	.0	.0	.0	.0	.0	.0	.5
6. WN mdbl	*	96.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	85.	*	.5	*	.0	.0	.0	.0	.0	.0	.2	.0
8. EN mdbl	*	260.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.3
9. SE mdbl	*	351.	*	.7	*	.5	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	174.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	11.	*	.5	*	.3	.0	.0	.0	.1	.0	.0	.0
12. NE mdbl	*	185.	*	.4	*	.0	.2	.0	.0	.0	.0	.0	.0
13. ES blk	*	277.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	263.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	353.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	7.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030Base-01 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0
17. SE blk	*	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: 2030Base-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	1861	1.7	.0	10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	2765	1.3	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	475	1.7	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	851	1.4	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	1032	1.0	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	1	1.7	.0	10.0
G. 3rd St. EBA	*	-150	-7	0	-7	* AG	445	1.7	.0	10.0
H. 3rd St. EBD	*	0	-7	150	-7	* AG	6	1.2	.0	10.0
I. 3rd St. EBL	*	-150	-5	0	0	* AG	892	1.7	.0	10.0
J. 3rd St. WBA	*	150	4	0	4	* AG	20	1.6	.0	10.0
K. 3rd St. WBD	*	0	4	-150	4	* AG	748	1.7	.0	10.0
L. 3rd St. WBL	*	150	2	0	0	* AG	6	1.7	.0	10.0
M. Palm Av NBAX	*	0	-750	0	-150	* AG	2336	1.0	.0	10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	2765	1.0	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	852	1.0	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	1032	1.0	.0	10.0
Q. 3rd St. EBAX	*	-750	-7	-150	-7	* AG	1337	1.0	.0	10.0
R. 3rd St. EBDX	*	150	-7	750	-7	* AG	6	1.0	.0	10.0
S. 3rd St. WBAX	*	750	4	150	4	* AG	26	1.0	.0	10.0
T. 3rd St. WBDX	*	-150	4	-750	4	* AG	748	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-02 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-14	1.8
2. NW	*	-12	10	1.8
3. SW	*	-12	-14	1.8
4. NE	*	7	10	1.8
5. ES mdbl k	*	150	-14	1.8
6. WN mdbl k	*	-150	10	1.8
7. WS mdbl k	*	-150	-14	1.8
8. EN mdbl k	*	150	10	1.8
9. SE mdbl k	*	7	-150	1.8
10. NW mdbl k	*	-12	150	1.8
11. SW mdbl k	*	-12	-150	1.8
12. NE mdbl k	*	7	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	7	600	1.8

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-02 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030Base-02 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030Base-03 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	2	-150	2	0	* AG	2318	1.7	.0	10.0
B. Palm Ave NBD	*	2	0	2	150	* AG	2352	1.3	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	1.0	.0	10.0
D. Palm Ave SBA	*	0	150	0	0	* AG	1063	1.7	.0	10.0
E. Palm Ave SBD	*	0	0	0	-150	* AG	1066	1.3	.0	10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	52	1.7	.0	10.0
G. Robertso EBA	*	-150	-4	0	-4	* AG	0	1.0	.0	10.0
H. Robertso EBD	*	0	-4	150	-4	* AG	52	1.2	.0	10.0
I. Robertso EBL	*	-150	-2	0	0	* AG	0	1.0	.0	10.0
J. Robertso WBA	*	150	4	0	4	* AG	34	1.6	.0	10.0
K. Robertso WBD	*	0	4	-150	4	* AG	0	1.0	.0	10.0
L. Robertso WBL	*	150	2	0	0	* AG	3	1.7	.0	10.0
M. Palm Av NBAX	*	2	-750	2	-150	* AG	2318	1.0	.0	10.0
N. Palm Av NBDX	*	2	150	2	750	* AG	2352	1.0	.0	10.0
O. Palm Av SBAX	*	0	750	0	150	* AG	1115	1.0	.0	10.0
P. Palm Av SBDX	*	0	-150	0	-750	* AG	1066	1.0	.0	10.0
Q. Roberts EBAX	*	-750	-4	-150	-4	* AG	0	1.0	.0	10.0
R. Roberts EBDX	*	150	-4	750	-4	* AG	52	1.0	.0	10.0
S. Roberts WBAX	*	750	4	150	4	* AG	37	1.0	.0	10.0
T. Roberts WBDX	*	-150	4	-750	4	* AG	0	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-03 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

	*	COORDINATES (M)		
RECEPTOR	*	X	Y	Z
-----*				
1. SE	*	8	-10	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-10	1.8
4. NE	*	8	10	1.8
5. ES mdbl	*	150	-10	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-10	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	8	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	8	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030Base-03 (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. SE	* 188.	* .7	.5	.0	.0	.0	.1	.0	.0	.0
2. NW	* 172.	* .6	.4	.0	.0	.0	.2	.0	.0	.0
3. SW	* 171.	* .6	.4	.0	.0	.0	.2	.0	.0	.0
4. NE	* 188.	* .7	.4	.0	.0	.0	.1	.0	.0	.0
5. ES mdbl	* 280.	* .0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	* 93.	* .0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	* 88.	* .0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	* 259.	* .0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	* 352.	* .7	.5	.0	.0	.0	.1	.0	.0	.0
10. NW mdbl	* 173.	* .7	.0	.3	.0	.3	.0	.0	.0	.0
11. SW mdbl	* 8.	* .6	.4	.0	.0	.0	.2	.0	.0	.0
12. NE mdbl	* 188.	* .7	.0	.4	.0	.2	.0	.0	.0	.0
13. ES blk	* 275.	* .0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 91.	* .0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 90.	* .0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 265.	* .0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 354.	* .5	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 174.	* .5	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 6.	* .5	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 186.	* .5	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030Base-03 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030Base-04 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*	EF	H	W	
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	2289	1.7	.0	10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	2318	1.3	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	1.0	.0	10.0
D. Palm Ave SBA	*	-4	150	-4	0	* AG	1047	1.7	.0	10.0
E. Palm Ave SBD	*	-4	0	-4	-150	* AG	1053	1.3	.0	10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	19	1.7	.0	10.0
G. Cemex Ac EBA	*	-150	-5	0	-5	* AG	0	1.0	.0	10.0
H. Cemex Ac EBD	*	0	-5	150	-5	* AG	20	1.2	.0	10.0
I. Cemex Ac EBL	*	-150	-2	0	0	* AG	0	1.0	.0	10.0
J. Cemex Ac WBA	*	150	7	0	7	* AG	30	1.6	.0	10.0
K. Cemex Ac WBD	*	0	7	-150	7	* AG	0	1.0	.0	10.0
L. Cemex Ac WBL	*	150	5	0	0	* AG	6	1.7	.0	10.0
M. Palm Av NBAX	*	0	-750	0	-150	* AG	2289	1.0	.0	10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	2318	1.0	.0	10.0
O. Palm Av SBAX	*	-4	750	-4	150	* AG	1066	1.0	.0	10.0
P. Palm Av SBDX	*	-4	-150	-4	-750	* AG	1053	1.0	.0	10.0
Q. Cemex A EBAX	*	-750	-5	-150	-5	* AG	0	1.0	.0	10.0
R. Cemex A EBDX	*	150	-5	750	-5	* AG	20	1.0	.0	10.0
S. Cemex A WBAX	*	750	7	150	7	* AG	36	1.0	.0	10.0
T. Cemex A WBDX	*	-150	7	-750	7	* AG	0	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-04 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-12	1.8
2. NW	*	-10	14	1.8
3. SW	*	-10	-14	1.8
4. NE	*	7	14	1.8
5. ES mdbl k	*	150	-12	1.8
6. WN mdbl k	*	-150	14	1.8
7. WS mdbl k	*	-150	-14	1.8
8. EN mdbl k	*	150	14	1.8
9. SE mdbl k	*	7	-150	1.8
10. NW mdbl k	*	-10	150	1.8
11. SW mdbl k	*	-10	-150	1.8
12. NE mdbl k	*	7	150	1.8
13. ES blk	*	600	-12	1.8
14. WN blk	*	-600	14	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	14	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-10	600	1.8
19. SW blk	*	-10	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030Base-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*		* PRED	*	CONC/LINK							
	*	BRG	* CONC	*	(PPM)							
	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
	*		*	*								
1. SE	*	188.	*	.7	*	.5	.0	.0	.0	.1	.0	.0
2. NW	*	171.	*	.6	*	.3	.0	.0	.0	.2	.0	.0
3. SW	*	171.	*	.5	*	.3	.0	.0	.0	.2	.0	.0
4. NE	*	188.	*	.7	*	.4	.0	.0	.0	.1	.0	.0
5. ES mdbl	*	307.	*	.0	*	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	131.	*	.0	*	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	87.	*	.0	*	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	258.	*	.0	*	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	352.	*	.7	*	.5	.0	.0	.0	.1	.0	.0
10. NW mdbl	*	173.	*	.6	*	.0	.2	.0	.2	.0	.0	.0
11. SW mdbl	*	8.	*	.6	*	.3	.0	.0	.0	.2	.0	.0
12. NE mdbl	*	188.	*	.6	*	.0	.4	.0	.2	.0	.0	.0
13. ES blk	*	274.	*	.0	*	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	92.	*	.0	*	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	90.	*	.0	*	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	265.	*	.0	*	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	.5	*	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.4	*	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	.4	*	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	.5	*	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030Base-04 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030Base-05 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Church A NBA	*	5	-150	5	0	* AG	0	1.0	.0	10.0
B. Church A NBD	*	5	0	5	150	* AG	358	1.2	.0	10.0
C. Church A NBL	*	5	-150	0	0	* AG	0	1.0	.0	10.0
D. Church A SBA	*	0	150	0	0	* AG	60	1.6	.0	10.0
E. Church A SBD	*	0	0	0	-150	* AG	0	1.0	.0	10.0
F. Church A SBL	*	-2	150	0	0	* AG	88	1.7	.0	10.0
G. 5th St. EBA	*	-150	-7	0	-7	* AG	2136	1.7	.0	10.0
H. 5th St. EBD	*	0	-7	150	-7	* AG	2224	1.3	.0	10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	163	1.7	.0	10.0
J. 5th St. WBA	*	150	4	0	4	* AG	1163	1.4	.0	10.0
K. 5th St. WBD	*	0	4	-150	4	* AG	1028	1.0	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	1.0	.0	10.0
M. Church NBAX	*	5	-750	5	-150	* AG	0	1.0	.0	10.0
N. Church NBDX	*	5	150	5	750	* AG	358	1.0	.0	10.0
O. Church SBAX	*	0	750	0	150	* AG	148	1.0	.0	10.0
P. Church SBDX	*	0	-150	0	-750	* AG	0	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	-7	-150	-7	* AG	2299	1.0	.0	10.0
R. 5th St. EBDX	*	150	-7	750	-7	* AG	2224	1.0	.0	10.0
S. 5th St. WBAX	*	750	4	150	4	* AG	1163	1.0	.0	10.0
T. 5th St. WBDX	*	-150	4	-750	4	* AG	1028	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-05 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	12	-14	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-14	1.8
4. NE	*	12	10	1.8
5. ES mdbl	*	150	-14	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	12	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	12	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	12	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	12	600	1.8

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-05 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-05 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

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

JOB: Upper Santa Ana River Wash
RUN: 2030Base-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Truck Ac NBA	*	9	-150	9	0	* AG	0	1.0	.0	10.0
B. Truck Ac NBD	*	9	0	9	150	* AG	0	1.0	.0	10.0
C. Truck Ac NBL	*	5	-150	0	0	* AG	0	1.0	.0	10.0
D. Truck Ac SBA	*	-7	150	-7	0	* AG	0	1.0	.0	10.0
E. Truck Ac SBD	*	-7	0	-7	-150	* AG	0	1.0	.0	10.0
F. Truck Ac SBL	*	-5	150	0	0	* AG	0	1.0	.0	10.0
G. 5th St. EBA	*	-150	-9	0	-9	* AG	0	1.0	.0	10.0
H. 5th St. EBD	*	0	-9	150	-9	* AG	0	1.0	.0	10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	0	1.0	.0	10.0
J. 5th St. WBA	*	150	9	0	9	* AG	0	1.0	.0	10.0
K. 5th St. WBD	*	0	9	-150	9	* AG	0	1.0	.0	10.0
L. 5th St. WBL	*	150	5	0	0	* AG	0	1.0	.0	10.0
M. Truck A NBAX	*	9	-750	9	-150	* AG	0	1.0	.0	10.0
N. Truck A NBDX	*	9	150	9	750	* AG	0	1.0	.0	10.0
O. Truck A SBAX	*	-7	750	-7	150	* AG	0	1.0	.0	10.0
P. Truck A SBDX	*	-7	-150	-7	-750	* AG	0	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	-9	-150	-9	* AG	0	1.0	.0	10.0
R. 5th St. EBDX	*	150	-9	750	-9	* AG	0	1.0	.0	10.0
S. 5th St. WBAX	*	750	9	150	9	* AG	0	1.0	.0	10.0
T. 5th St. WBDX	*	-150	9	-750	9	* AG	0	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	17	-15	1.8
2. NW	*	-14	15	1.8
3. SW	*	-14	-17	1.8
4. NE	*	15	17	1.8
5. ES mdbl	*	150	-15	1.8
6. WN mdbl	*	-150	15	1.8
7. WS mdbl	*	-150	-17	1.8
8. EN mdbl	*	150	17	1.8
9. SE mdbl	*	17	-150	1.8
10. NW mdbl	*	-14	150	1.8
11. SW mdbl	*	-14	-150	1.8
12. NE mdbl	*	15	150	1.8
13. ES blk	*	600	-15	1.8
14. WN blk	*	-600	15	1.8
15. WS blk	*	-600	-17	1.8
16. EN blk	*	600	17	1.8
17. SE blk	*	17	-600	1.8
18. NW blk	*	-14	600	1.8
19. SW blk	*	-14	-600	1.8
20. NE blk	*	15	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030Base-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* PRED *			CONC/LINK							
	* BRG	* CONC	*	(PPM)							
	* (DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
1. SE	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 0.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030Base-07 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	* LINK COORDINATES (M)	* EF	H	W
DESCRIPTION	* X1 Y1 X2 Y2 * TYPE VPH (G/MI)	(M)	(M)	
A. SR-30 SB NBA	* 2 -150 2 0 * AG 0	1.0	.0 10.0	
B. SR-30 SB NBD	* 2 0 2 150 * AG 0	1.0	.0 10.0	
C. SR-30 SB NBL	* 2 -150 0 0 * AG 0	1.0	.0 10.0	
D. SR-30 SB SBA	* -2 150 -2 0 * AG 134	1.6	.0 10.0	
E. SR-30 SB SBD	* -2 0 -2 -150 * AG 1447	1.7	.0 10.0	
F. SR-30 SB SBL	* -2 150 0 0 * AG 248	1.7	.0 10.0	
G. 5th St. EBA	* -150 -4 0 -4 * AG 2380	1.7	.0 13.5	
H. 5th St. EBD	* 0 -4 150 -4 * AG 1678	1.2	.0 10.0	
I. 5th St. EBL	* -150 -2 0 0 * AG 0	1.0	.0 10.0	
J. 5th St. WBA	* 150 2 0 2 * AG 996	1.4	.0 10.0	
K. 5th St. WBD	* 0 2 -150 2 * AG 1130	1.0	.0 10.0	
L. 5th St. WBL	* 150 2 0 0 * AG 497	1.7	.0 10.0	
M. SR-30 S NBAX	* 2 -750 2 -150 * AG 0	1.0	.0 10.0	
N. SR-30 S NBDX	* 2 150 2 750 * AG 0	1.0	.0 10.0	
O. SR-30 S SBAX	* -2 750 -2 150 * AG 382	1.0	.0 10.0	
P. SR-30 S SBDX	* -2 -150 -2 -750 * AG 1447	1.0	.0 10.0	
Q. 5th St. EBAX	* -750 -4 -150 -4 * AG 2380	1.0	.0 13.5	
R. 5th St. EBDX	* 150 -4 750 -4 * AG 1678	1.0	.0 10.0	
S. 5th St. WBAX	* 750 2 150 2 * AG 1493	1.0	.0 10.0	
T. 5th St. WBDX	* -150 2 -750 2 * AG 1130	1.0	.0 10.0	

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

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-07 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	8	-10	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-10	1.8
4. NE	*	8	8	1.8
5. ES mdbl	*	150	-10	1.8
6. WN mdbl	*	-150	8	1.8
7. WS mdbl	*	-150	-10	1.8
8. EN mdbl	*	150	8	1.8
9. SE mdbl	*	8	-150	1.8
10. NW mdbl	*	-8	150	1.8
11. SW mdbl	*	-8	-150	1.8
12. NE mdbl	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	8	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-8	600	1.8
19. SW blk	*	-8	-600	1.8
20. NE blk	*	8	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030Base-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		* PRED *	CONC/LINK							
	*	BRG	* CONC *	(PPM)							
RECEPTOR	*	(DEG)	* (PPM) *	A	B	C	D	E	F	G	H
	*		*								
1. SE	*	276.	* .8 *	.0	.0	.0	.0	.1	.0	.5	.0
2. NW	*	173.	* .6 *	.0	.0	.0	.0	.3	.0	.2	.0
3. SW	*	82.	* .8 *	.0	.0	.0	.0	.2	.0	.1	.2
4. NE	*	261.	* .6 *	.0	.0	.0	.0	.0	.0	.3	.0
5. ES mdbl	*	277.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.3
6. WN mdbl	*	98.	* .6 *	.0	.0	.0	.0	.0	.0	.3	.0
7. WS mdbl	*	84.	* .8 *	.0	.0	.0	.0	.0	.0	.6	.0
8. EN mdbl	*	263.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.1
9. SE mdbl	*	349.	* .3 *	.0	.0	.0	.0	.2	.0	.0	.0
10. NW mdbl	*	177.	* .2 *	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	9.	* .4 *	.0	.0	.0	.0	.3	.0	.0	.0
12. NE mdbl	*	185.	* .2 *	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	276.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	* .2 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	177.	* .1 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	185.	* .1 *	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Upper Santa Ana River Wash
RUN: 2030Base-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

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

JOB: Upper Santa Ana River Wash
RUN: 2030Base-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 366. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*	EF	H	W	
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. SR-30 NB NBA	*	0	-150	0	0	* AG	747	1.7	.0	10.0
B. SR-30 NB NBD	*	0	0	0	150	* AG	432	1.5	.0	10.0
C. SR-30 NB NBL	*	2	-150	0	0	* AG	625	1.7	.0	10.0
D. SR-30 NB SBA	*	0	150	0	0	* AG	0	1.0	.0	10.0
E. SR-30 NB SBD	*	0	0	0	-150	* AG	0	1.0	.0	10.0
F. SR-30 NB SBL	*	-2	150	0	0	* AG	0	1.0	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	* AG	1327	1.5	.0	10.0
H. 5th St. EBD	*	0	0	150	0	* AG	2074	1.3	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	230	1.7	.0	10.0
J. 5th St. WBA	*	150	0	0	0	* AG	1111	1.4	.0	10.0
K. 5th St. WBD	*	0	0	-150	0	* AG	1534	1.1	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	1.0	.0	10.0
M. SR-30 N NBAX	*	0	-750	0	-150	* AG	1372	1.0	.0	10.0
N. SR-30 N NBDX	*	0	150	0	750	* AG	432	1.0	.0	10.0
O. SR-30 N SBAX	*	0	750	0	150	* AG	0	1.0	.0	10.0
P. SR-30 N SBDX	*	0	-150	0	-750	* AG	0	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	* AG	1557	1.0	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	* AG	2074	1.0	.0	10.0
S. 5th St. WBAX	*	750	0	150	0	* AG	1111	1.0	.0	10.0
T. 5th St. WBDX	*	-150	0	-750	0	* AG	1534	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-08 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl k	*	150	-7	1.8
6. WN mdbl k	*	-150	7	1.8
7. WS mdbl k	*	-150	-7	1.8
8. EN mdbl k	*	150	7	1.8
9. SE mdbl k	*	7	-150	1.8
10. NW mdbl k	*	-7	150	1.8
11. SW mdbl k	*	-7	-150	1.8
12. NE mdbl k	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-08 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

JOB: Upper Santa Ana River Wash
RUN: 2030Base-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030Base-09 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK		* LINK COORDINATES (M)						EF	H	W
DESCRIPTION		X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Boulder	NBA *	0	-150	0	0	* AG	1123	1.7	.0	13.5
B. Boulder	NBD *	0	0	0	150	* AG	1177	1.7	.0	10.0
C. Boulder	NBL *	2	-150	0	0	* AG	625	1.7	.0	10.0
D. Boulder	SBA *	0	150	0	0	* AG	836	1.7	.0	10.0
E. Boulder	SBD *	0	0	0	-150	* AG	1234	1.7	.0	10.0
F. Boulder	SBL *	-2	150	0	0	* AG	321	1.7	.0	10.0
G. 5th St.	EBA *	-150	0	0	0	* AG	1459	1.6	.0	13.5
H. 5th St.	EBD *	0	0	150	0	* AG	1386	1.1	.0	10.0
I. 5th St.	EBL *	-150	-2	0	0	* AG	11	1.7	.0	10.0
J. 5th St.	WBA *	150	0	0	0	* AG	262	1.3	.0	13.5
K. 5th St.	WBD *	0	0	-150	0	* AG	844	1.0	.0	10.0
L. 5th St.	WBL *	150	2	0	0	* AG	4	1.7	.0	10.0
M. Boulder	NBAX *	0	-750	0	-150	* AG	1748	1.0	.0	13.5
N. Boulder	NBDX *	0	150	0	750	* AG	1177	1.0	.0	10.0
O. Boulder	SBAX *	0	750	0	150	* AG	1157	1.0	.0	10.0
P. Boulder	SBDX *	0	-150	0	-750	* AG	1234	1.0	.0	10.0
Q. 5th St.	EBAX *	-750	0	-150	0	* AG	1470	1.0	.0	13.5
R. 5th St.	EBDX *	150	0	750	0	* AG	1386	1.0	.0	10.0
S. 5th St.	WBAX *	750	0	150	0	* AG	266	1.0	.0	13.5
T. 5th St.	WBDX *	-150	0	-750	0	* AG	844	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-09 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030Base-09 (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. SE	*	276.	*	.9	*	.1	.0	.0	.0	.1	.0	.3	.0
2. NW	*	173.	*	1.0	*	.3	.0	.1	.0	.3	.0	.2	.0
3. SW	*	7.	*	.9	*	.0	.3	.0	.2	.0	.0	.2	.0
4. NE	*	187.	*	.9	*	.3	.0	.2	.0	.3	.0	.0	.1
5. ES mdbl	*	275.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.2
6. WN mdbl	*	96.	*	.6	*	.0	.0	.0	.0	.0	.0	.4	.0
7. WS mdbl	*	84.	*	.6	*	.0	.0	.0	.0	.0	.0	.4	.0
8. EN mdbl	*	265.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.2
9. SE mdbl	*	354.	*	1.0	*	.3	.0	.2	.0	.3	.0	.0	.0
10. NW mdbl	*	174.	*	.7	*	.0	.3	.0	.2	.0	.1	.0	.0
11. SW mdbl	*	6.	*	.8	*	.3	.0	.1	.0	.3	.0	.0	.0
12. NE mdbl	*	186.	*	.7	*	.0	.3	.0	.2	.0	.0	.0	.0
13. ES blk	*	276.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	95.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	85.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	5.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030Base-09 (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	Q	R	S	T
1. SE	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.1
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.1
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0

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

JOB: Upper Santa Ana River Wash
RUN: 2030Base-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)	*	EF	H	W
DESCRIPTION	*	X1 Y1 X2 Y2	* TYPE	VPH (G/MI)	(M)	(M)
A. Orange S NBA	*	0 -150 0 0	* AG	2185	1.7	.0 10.0
B. Orange S NBD	*	0 0 0 150	* AG	2189	1.6	.0 10.0
C. Orange S NBL	*	2 -150 0 0	* AG	1	1.7	.0 10.0
D. Orange S SBA	*	0 150 0 0	* AG	1474	1.7	.0 10.0
E. Orange S SBD	*	0 0 0 -150	* AG	1483	1.6	.0 10.0
F. Orange S SBL	*	-2 150 0 0	* AG	3	1.7	.0 10.0
G. Cemex Ac EBA	*	-150 0 0 0	* AG	3	1.4	.0 10.0
H. Cemex Ac EBD	*	0 0 150 0	* AG	14	1.1	.0 10.0
I. Cemex Ac EBL	*	-150 -2 0 0	* AG	0	1.0	.0 10.0
J. Cemex Ac WBA	*	150 0 0 0	* AG	13	1.4	.0 10.0
K. Cemex Ac WBD	*	0 0 -150 0	* AG	1	1.1	.0 10.0
L. Cemex Ac WBL	*	150 2 0 0	* AG	8	1.7	.0 10.0
M. Orange NBAX	*	0 -750 0 -150	* AG	2186	1.0	.0 10.0
N. Orange NBDX	*	0 150 0 750	* AG	2189	1.0	.0 10.0
O. Orange SBAX	*	0 750 0 150	* AG	1477	1.0	.0 10.0
P. Orange SBDX	*	0 -150 0 -750	* AG	1483	1.0	.0 10.0
Q. Cemex A EBAX	*	-750 0 -150 0	* AG	3	1.0	.0 10.0
R. Cemex A EBDX	*	150 0 750 0	* AG	14	1.0	.0 10.0
S. Cemex A WBAX	*	750 0 150 0	* AG	21	1.0	.0 10.0
T. Cemex A WBDX	*	-150 0 -750 0	* AG	1	1.0	.0 10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030Base-10 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

	*	COORDINATES (M)		
RECEPTOR	*	X	Y	Z
	*			
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030Base-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		* PRED	*	CONC/LINK							
	*	BRG	* CONC	*	(PPM)							
RECEPTOR	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
	*		*	*								
1. SE	*	188.	* .9	*	.5	.0	.0	.0	.3	.0	.0	.0
2. NW	*	8.	* .8	*	.0	.4	.0	.3	.0	.0	.0	.0
3. SW	*	172.	* .9	*	.5	.0	.0	.0	.3	.0	.0	.0
4. NE	*	352.	* .8	*	.0	.4	.0	.3	.0	.0	.0	.0
5. ES mdbl k	*	306.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl k	*	126.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl k	*	54.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl k	*	234.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl k	*	352.	* .9	*	.5	.0	.0	.0	.3	.0	.0	.0
10. NW mdbl k	*	172.	* .9	*	.0	.4	.0	.3	.0	.0	.0	.0
11. SW mdbl k	*	8.	* .9	*	.5	.0	.0	.0	.3	.0	.0	.0
12. NE mdbl k	*	188.	* .9	*	.0	.4	.0	.3	.0	.0	.0	.0
13. ES blk	*	273.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	92.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	89.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	267.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030Base-10 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0

**UPPER SANTA ANA RIVER WASH
AIR QUALITY CO HOT SPOT ANALYSIS
CALINE4 MODEL PRINTOUTS
FUTURE YEAR (YEAR 2030) LAND USE ALTERNATIVE 1,
ACCESS ALTERNATIVE A WITH PROJECT**

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	4	-150	4	0	* AG	2563	1.7	.0	13.5
B. Palm Ave NBD	*	.4	0	4	150	* AG	1218	1.1	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	177	1.7	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	374	1.4	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	806	1.1	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	56	1.7	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	* AG	1015	1.5	.0	10.0
H. 5th St. EBD	*	0	0	150	0	* AG	2392	1.6	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	94	1.7	.0	10.0
J. 5th St. WBA	*	150	5	0	5	* AG	714	1.4	.0	10.0
K. 5th St. WBD	*	0	5	-150	5	* AG	841	1.1	.0	10.0
L. 5th St. WBL	*	150	5	0	0	* AG	264	1.7	.0	10.0
M. Palm Av NBAX	*	4	-750	4	-150	* AG	2740	1.0	.0	13.5
N. Palm Av NBDX	*	4	150	4	750	* AG	1218	1.0	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	430	1.0	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	806	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	* AG	1109	1.0	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	* AG	2392	1.0	.0	10.0
S. 5th St. WBAX	*	750	5	150	5	* AG	978	1.0	.0	10.0
T. 5th St. WBDX	*	-150	5	-750	5	* AG	841	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-01 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	10	-7	1.8
2. NW	*	-12	12	1.8
3. SW	*	-12	-7	1.8
4. NE	*	10	12	1.8
5. ES mdbl k	*	150	-7	1.8
6. WN mdbl k	*	-150	12	1.8
7. WS mdbl k	*	-150	-7	1.8
8. EN mdbl k	*	150	12	1.8
9. SE mdbl k	*	10	-150	1.8
10. NW mdbl k	*	-12	150	1.8
11. SW mdbl k	*	-12	-150	1.8
12. NE mdbl k	*	10	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	12	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	12	1.8
17. SE blk	*	10	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	10	600	1.8

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-01 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* * * * *	BRG (DEG)	* * * * *	PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. SE	*	187.	*	.8 *	.7	.0	.0	.0	.0	.0	.0	.0
2. NW	*	171.	*	.6 *	.2	.0	.0	.0	.1	.0	.0	.0
3. SW	*	83.	*	.9 *	.2	.0	.0	.0	.0	.0	.0	.4
4. NE	*	186.	*	.9 *	.5	.0	.0	.0	.0	.0	.0	.2
5. ES mdbl	*	278.	*	.7 *	.0	.0	.0	.0	.0	.0	.0	.5
6. WN mdbl	*	96.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	85.	*	.5 *	.0	.0	.0	.0	.0	.0	.2	.0
8. EN mdbl	*	260.	*	.6 *	.0	.0	.0	.0	.0	.0	.0	.3
9. SE mdbl	*	353.	*	.9 *	.7	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	174.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	12.	*	.5 *	.3	.0	.0	.0	.1	.0	.0	.0
12. NE mdbl	*	185.	*	.4 *	.0	.2	.0	.0	.0	.0	.0	.0
13. ES blk	*	277.	*	.5 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	*	.3 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	*	.3 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	263.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	.6 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	7.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	.3 *	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-01 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0
17. SE blk	*	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A1A-02 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	1861	1.7	.0	10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	2765	1.3	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	475	1.7	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	807	1.4	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	988	1.0	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	1	1.7	.0	10.0
G. 3rd St. EBA	*	-150	-7	0	-7	* AG	445	1.7	.0	10.0
H. 3rd St. EBD	*	0	-7	150	-7	* AG	6	1.2	.0	10.0
I. 3rd St. EBL	*	-150	-5	0	0	* AG	892	1.7	.0	10.0
J. 3rd St. WBA	*	150	4	0	4	* AG	20	1.6	.0	13.5
K. 3rd St. WBD	*	0	4	-150	4	* AG	748	1.3	.0	10.0
L. 3rd St. WBL	*	150	2	0	0	* AG	6	1.7	.0	10.0
M. Palm Av NBAX	*	0	-750	0	-150	* AG	2336	1.0	.0	10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	2765	1.0	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	808	1.0	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	988	1.0	.0	10.0
Q. 3rd St. EBAX	*	-750	-7	-150	-7	* AG	1337	1.0	.0	10.0
R. 3rd St. EBDX	*	150	-7	750	-7	* AG	6	1.0	.0	10.0
S. 3rd St. WBAX	*	750	4	150	4	* AG	26	1.0	.0	13.5
T. 3rd St. WBDX	*	-150	4	-750	4	* AG	748	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-02 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
		X	Y	Z
1. SE	*	7	-14	1.8
2. NW	*	-12	10	1.8
3. SW	*	-12	-14	1.8
4. NE	*	7	10	1.8
5. ES mdbl	*	150	-14	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-12	150	1.8
11. SW mdbl	*	-12	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-02 (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. SE	*	188.	*	.7	*	.4	.0	.1	.0	.0	.0	.0	.0
2. NW	*	171.	*	.7	*	.2	.0	.0	.0	.1	.0	.0	.0
3. SW	*	8.	*	.6	*	.0	.2	.0	.1	.0	.0	.0	.0
4. NE	*	188.	*	.7	*	.4	.0	.1	.0	.0	.0	.0	.0
5. ES mdbl	*	273.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	103.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	78.	*	.4	*	.0	.0	.0	.0	.0	.0	.1	.0
8. EN mdbl	*	267.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	352.	*	.8	*	.4	.0	.2	.0	.0	.0	.0	.0
10. NW mdbl	*	173.	*	.5	*	.0	.2	.0	.2	.0	.0	.0	.0
11. SW mdbl	*	7.	*	.5	*	.2	.0	.0	.0	.1	.0	.0	.0
12. NE mdbl	*	188.	*	.7	*	.0	.4	.0	.0	.0	.0	.0	.0
13. ES blk	*	271.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	97.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	83.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	268.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	353.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	187.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

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

		CONC/LINK											
		(PPM)											
RECEPTOR	*	I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	2	-150	2	0	* AG	2318	1.7	.0	10.0
B. Palm Ave NBD	*	2	0	2	150	* AG	2337	1.3	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	1.0	.0	10.0
D. Palm Ave SBA	*	0	150	0	0	* AG	1064	1.4	.0	10.0
E. Palm Ave SBD	*	0	0	0	-150	* AG	1067	1.0	.0	10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	7	1.7	.0	10.0
G. Robertso EBA	*	-150	-4	0	-4	* AG	0	1.0	.0	10.0
H. Robertso EBD	*	0	-4	150	-4	* AG	7	1.2	.0	10.0
I. Robertso EBL	*	-150	-2	0	0	* AG	0	1.0	.0	10.0
J. Robertso WBA	*	150	4	0	4	* AG	19	1.6	.0	10.0
K. Robertso WBD	*	0	4	-150	4	* AG	0	1.0	.0	10.0
L. Robertso WBL	*	150	2	0	0	* AG	3	1.7	.0	10.0
M. Palm Av NBAX	*	2	-750	2	-150	* AG	2318	1.0	.0	10.0
N. Palm Av NBDX	*	2	150	2	750	* AG	2337	1.0	.0	10.0
O. Palm Av SBAX	*	0	750	0	150	* AG	1071	1.0	.0	10.0
P. Palm Av SBDX	*	0	-150	0	-750	* AG	1067	1.0	.0	10.0
Q. Roberts EBAX	*	-750	-4	-150	-4	* AG	0	1.0	.0	10.0
R. Roberts EBDX	*	150	-4	750	-4	* AG	7	1.0	.0	10.0
S. Roberts WBAX	*	750	4	150	4	* AG	22	1.0	.0	10.0
T. Roberts WBDX	*	-150	4	-750	4	* AG	0	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-03 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	8	-10	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-10	1.8
4. NE	*	8	10	1.8
5. ES mdbl	*	150	-10	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-10	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	8	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	8	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-03 (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. SE	*	188.	*	.7	*	.5	.0	.0	.0	.1	.0	.0	.0
2. NW	*	172.	*	.6	*	.4	.0	.0	.0	.1	.0	.0	.0
3. SW	*	171.	*	.6	*	.4	.0	.0	.0	.2	.0	.0	.0
4. NE	*	188.	*	.7	*	.4	.0	.0	.0	.1	.0	.0	.0
5. ES mdbl	*	311.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	127.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	122.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	230.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	352.	*	.7	*	.5	.0	.0	.0	.1	.0	.0	.0
10. NW mdbl	*	173.	*	.6	*	.0	.3	.0	.2	.0	.0	.0	.0
11. SW mdbl	*	8.	*	.6	*	.4	.0	.0	.0	.2	.0	.0	.0
12. NE mdbl	*	187.	*	.6	*	.0	.4	.0	.2	.0	.0	.0	.0
13. ES blk	*	273.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	93.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	91.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	266.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	353.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	187.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-03 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A1A-04 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	2289	1.7	.0	10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	2318	1.3	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	1.0	.0	10.0
D. Palm Ave SBA	*	-4	150	-4	0	* AG	1047	1.7	.0	10.0
E. Palm Ave SBD	*	-4	0	-4	-150	* AG	1053	1.3	.0	10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	20	1.7	.0	10.0
G. Cemex Ac EBA	*	-150	-5	0	-5	* AG	0	1.0	.0	10.0
H. Cemex Ac EBD	*	0	-5	150	-5	* AG	21	1.2	.0	10.0
I. Cemex Ac EBL	*	-150	-2	0	0	* AG	0	1.0	.0	10.0
J. Cemex Ac WBA	*	150	11	0	11	* AG	30	1.6	.0	10.0
K. Cemex Ac WBD	*	0	11	-150	11	* AG	0	1.0	.0	10.0
L. Cemex Ac WBL	*	150	9	0	0	* AG	6	1.7	.0	10.0
M. Palm Av NBAX	*	0	-750	0	-150	* AG	2289	1.0	.0	10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	2318	1.0	.0	10.0
O. Palm Av SBAX	*	-4	750	-4	150	* AG	1067	1.0	.0	10.0
P. Palm Av SBDX	*	-4	-150	-4	-750	* AG	1053	1.0	.0	10.0
Q. Cemex A EBAX	*	-750	-5	-150	-5	* AG	0	1.0	.0	10.0
R. Cemex A EBDX	*	150	-5	750	-5	* AG	21	1.0	.0	10.0
S. Cemex A WBAX	*	750	11	150	11	* AG	36	1.0	.0	10.0
T. Cemex A WBDX	*	-150	11	-750	11	* AG	0	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-04 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

	*	COORDINATES (M)		
RECEPTOR	*	X	Y	Z
	*			
1. SE	*	7	-12	1.8
2. NW	*	-10	17	1.8
3. SW	*	-10	-14	1.8
4. NE	*	7	17	1.8
5. ES mdbl	*	150	-12	1.8
6. WN mdbl	*	-150	17	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	17	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-10	150	1.8
11. SW mdbl	*	-10	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-12	1.8
14. WN blk	*	-600	17	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	17	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-10	600	1.8
19. SW blk	*	-10	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	* PRED	*	CONC/LINK									
	*	BRG	* CONC	*	(PPM)								
	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H	

1. SE	*	188.	*	.7	*	.5	.0	.0	.0	.1	.0	.0	.0
2. NW	*	171.	*	.6	*	.3	.0	.0	.0	.1	.0	.0	.0
3. SW	*	171.	*	.5	*	.3	.0	.0	.0	.2	.0	.0	.0
4. NE	*	188.	*	.7	*	.4	.1	.0	.0	.1	.0	.0	.0
5. ES mdbl	*	307.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	129.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	87.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	232.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	352.	*	.7	*	.5	.0	.0	.0	.1	.0	.0	.0
10. NW mdbl	*	173.	*	.6	*	.0	.2	.0	.2	.0	.0	.0	.0
11. SW mdbl	*	8.	*	.6	*	.3	.0	.0	.0	.2	.0	.0	.0
12. NE mdbl	*	188.	*	.6	*	.0	.4	.0	.2	.0	.0	.0	.0
13. ES blk	*	275.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	92.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	90.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	265.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-04 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A1A-05 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Church A NBA	*	9	-150	9	0	* AG	0	1.0	.0	10.0
B. Church A NBD	*	9	0	9	150	* AG	358	1.2	.0	10.0
C. Church A NBL	*	9	-150	0	0	* AG	0	1.0	.0	10.0
D. Church A SBA	*	0	150	0	0	* AG	60	1.6	.0	10.0
E. Church A SBD	*	0	0	0	-150	* AG	0	1.0	.0	10.0
F. Church A SBL	*	-2	150	0	0	* AG	88	1.7	.0	10.0
G. 5th St. EBA	*	-150	-7	0	-7	* AG	2121	1.7	.0	10.0
H. 5th St. EBD	*	0	-7	150	-7	* AG	2209	1.3	.0	10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	163	1.7	.0	10.0
J. 5th St. WBA	*	150	4	0	4	* AG	1118	1.4	.0	10.0
K. 5th St. WBD	*	0	4	-150	4	* AG	983	1.0	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	1.0	.0	10.0
M. Church NBAX	*	9	-750	9	-150	* AG	0	1.0	.0	10.0
N. Church NBDX	*	9	150	9	750	* AG	358	1.0	.0	10.0
O. Church SBAX	*	0	750	0	150	* AG	148	1.0	.0	10.0
P. Church SBDX	*	0	-150	0	-750	* AG	0	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	-7	-150	-7	* AG	2284	1.0	.0	10.0
R. 5th St. EBDX	*	150	-7	750	-7	* AG	2209	1.0	.0	10.0
S. 5th St. WBAX	*	750	4	150	4	* AG	1118	1.0	.0	10.0
T. 5th St. WBDX	*	-150	4	-750	4	* AG	983	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-05 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. SE	*	15	-14	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-14	1.8
4. NE	*	15	10	1.8
5. ES mdbl k	*	150	-14	1.8
6. WN mdbl k	*	-150	10	1.8
7. WS mdbl k	*	-150	-14	1.8
8. EN mdbl k	*	150	10	1.8
9. SE mdbl k	*	15	-150	1.8
10. NW mdbl k	*	-7	150	1.8
11. SW mdbl k	*	-7	-150	1.8
12. NE mdbl k	*	15	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	15	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	15	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*		* PRED	*	CONC/LINK							
	*	BRG	* CONC	*	(PPM)							
	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
	*		*	*								
1. SE	*	278.	*	.6 *	.0	.0	.0	.0	.0	.0	.4	.0
2. NW	*	98.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.1
3. SW	*	279.	*	.6 *	.0	.0	.0	.0	.0	.0	.5	.0
4. NE	*	260.	*	.5 *	.0	.0	.0	.0	.0	.0	.2	.0
5. ES mdbl	*	278.	*	.5 *	.0	.0	.0	.0	.0	.0	.0	.4
6. WN mdbl	*	98.	*	.4 *	.0	.0	.0	.0	.0	.0	.1	.0
7. WS mdbl	*	82.	*	.6 *	.0	.0	.0	.0	.0	.0	.5	.0
8. EN mdbl	*	262.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.1
9. SE mdbl	*	357.	*	.0 *	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	170.	*	.1 *	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	2.	*	.1 *	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	192.	*	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	277.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	97.	*	.3 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	83.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	263.	*	.3 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	358.	*	.0 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.1 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	360.	*	.0 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	.1 *	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-05 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A1A-06 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Truck Ac NBA	*	9	-150	9	0	* AG	30	1.6	.0	10.0
B. Truck Ac NBD	*	9	0	9	150	* AG	53	1.1	.0	10.0
C. Truck Ac NBL	*	5	-150	0	0	* AG	0	1.0	.0	10.0
D. Truck Ac SBA	*	-9	150	-9	0	* AG	0	1.0	.0	10.0
E. Truck Ac SBD	*	-9	0	-9	-150	* AG	0	1.0	.0	10.0
F. Truck Ac SBL	*	-5	150	0	0	* AG	0	1.0	.0	10.0
G. 5th St. EBA	*	-150	-9	0	-9	* AG	2209	1.7	.0	10.0
H. 5th St. EBD	*	0	-9	150	-9	* AG	2239	1.3	.0	10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	0	1.0	.0	10.0
J. 5th St. WBA	*	150	9	0	9	* AG	1171	1.4	.0	10.0
K. 5th St. WBD	*	0	9	-150	9	* AG	1118	1.0	.0	10.0
L. 5th St. WBL	*	150	5	0	0	* AG	0	1.0	.0	10.0
M. Truck A NBAX	*	9	-750	9	-150	* AG	30	1.0	.0	10.0
N. Truck A NBDX	*	9	150	9	750	* AG	53	1.0	.0	10.0
O. Truck A SBAX	*	-9	750	-9	150	* AG	0	1.0	.0	10.0
P. Truck A SBDX	*	-9	-150	-9	-750	* AG	0	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	-9	-150	-9	* AG	2209	1.0	.0	10.0
R. 5th St. EBDX	*	150	-9	750	-9	* AG	2239	1.0	.0	10.0
S. 5th St. WBAX	*	750	9	150	9	* AG	1171	1.0	.0	10.0
T. 5th St. WBDX	*	-150	9	-750	9	* AG	1118	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

	*	COORDINATES (M)		
RECEPTOR	*	X	Y	Z
	*			
1. SE	*	17	-15	1.8
2. NW	*	-17	15	1.8
3. SW	*	-15	-17	1.8
4. NE	*	15	17	1.8
5. ES mdbl k	*	150	-15	1.8
6. WN mdbl k	*	-150	15	1.8
7. WS mdbl k	*	-150	-17	1.8
8. EN mdbl k	*	150	17	1.8
9. SE mdbl k	*	17	-150	1.8
10. NW mdbl k	*	-17	150	1.8
11. SW mdbl k	*	-15	-150	1.8
12. NE mdbl k	*	15	150	1.8
13. ES blk	*	600	-15	1.8
14. WN blk	*	-600	15	1.8
15. WS blk	*	-600	-17	1.8
16. EN blk	*	600	17	1.8
17. SE blk	*	17	-600	1.8
18. NW blk	*	-17	600	1.8
19. SW blk	*	-15	-600	1.8
20. NE blk	*	15	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-06 (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. SE	* 278.	* .6 *	.0	.0	.0	.0	.0	.0	.4	.1
2. NW	* 98.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	* 280.	* .5 *	.0	.0	.0	.0	.0	.0	.4	.0
4. NE	* 100.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	* 278.	* .5 *	.0	.0	.0	.0	.0	.0	.0	.4
6. WN mdbl	* 99.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	* 81.	* .5 *	.0	.0	.0	.0	.0	.0	.4	.0
8. EN mdbl	* 261.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	* 316.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	* 113.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	* 68.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	* 186.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	* 277.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 97.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 83.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 262.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 356.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 174.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 5.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 184.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. SR-30 SB NBA	*	2	-150	2	0	* AG	0	1.0	.0	10.0
B. SR-30 SB NBD	*	2	0	2	150	* AG	0	1.0	.0	10.0
C. SR-30 SB NBL	*	2	-150	0	0	* AG	0	1.0	.0	10.0
D. SR-30 SB SBA	*	-2	150	-2	0	* AG	135	1.6	.0	10.0
E. SR-30 SB SBD	*	-2	0	-2	-150	* AG	1449	1.7	.0	10.0
F. SR-30 SB SBL	*	-2	150	0	0	* AG	248	1.7	.0	10.0
G. 5th St. EBA	*	-150	-4	0	-4	* AG	2395	1.7	.0	13.5
H. 5th St. EBD	*	0	-4	150	-4	* AG	1682	1.2	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	0	1.0	.0	10.0
J. 5th St. WBA	*	150	2	0	2	* AG	1003	1.4	.0	10.0
K. 5th St. WBD	*	0	2	-150	2	* AG	1138	1.0	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	488	1.7	.0	10.0
M. SR-30 S NBAX	*	2	-750	2	-150	* AG	0	1.0	.0	10.0
N. SR-30 S NBDX	*	2	150	2	750	* AG	0	1.0	.0	10.0
O. SR-30 S SBAX	*	-2	750	-2	150	* AG	383	1.0	.0	10.0
P. SR-30 S SBDX	*	-2	-150	-2	-750	* AG	1449	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	-4	-150	-4	* AG	2395	1.0	.0	13.5
R. 5th St. EBDX	*	150	-4	750	-4	* AG	1682	1.0	.0	10.0
S. 5th St. WBAX	*	750	2	150	2	* AG	1491	1.0	.0	10.0
T. 5th St. WBDX	*	-150	2	-750	2	* AG	1138	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-07 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	8	-10	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-10	1.8
4. NE	*	8	8	1.8
5. ES mdbl	*	150	-10	1.8
6. WN mdbl	*	-150	8	1.8
7. WS mdbl	*	-150	-10	1.8
8. EN mdbl	*	150	8	1.8
9. SE mdbl	*	8	-150	1.8
10. NW mdbl	*	-8	150	1.8
11. SW mdbl	*	-8	-150	1.8
12. NE mdbl	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	8	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-8	600	1.8
19. SW blk	*	-8	-600	1.8
20. NE blk	*	8	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*		* PRED	*	CONC/LINK								
	*	BRG	* CONC	*	(PPM)								
	*	{DEG}	* (PPM)	*	A	B	C	D	E	F	G	H	

1. SE	*	276.	*	.8	*	.0	.0	.0	.0	.1	.0	.5	.0
2. NW	*	173.	*	.6	*	.0	.0	.0	.0	.3	.0	.2	.0
3. SW	*	82.	*	.8	*	.0	.0	.0	.0	.2	.0	.1	.2
4. NE	*	261.	*	.6	*	.0	.0	.0	.0	.0	.0	.3	.0
5. ES mdbl	k	277.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.3
6. WN mdbl	*	98.	*	.6	*	.0	.0	.0	.0	.0	.0	.3	.0
7. WS mdbl	*	84.	*	.8	*	.0	.0	.0	.0	.0	.0	.6	.0
8. EN mdbl	*	263.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.1
9. SE mdbl	*	349.	*	.3	*	.0	.0	.0	.0	.2	.0	.0	.0
10. NW mdbl	*	177.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	9.	*	.4	*	.0	.0	.0	.0	.3	.0	.0	.0
12. NE mdbl	*	185.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	276.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	177.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	185.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-07 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A1A-08 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. SR-30 NB NBA	*	0	-150	0	0	* AG	744	1.7	.0	10.0
B. SR-30 NB NBD	*	0	0	0	150	* AG	433	1.5	.0	10.0
C. SR-30 NB NBL	*	2	-150	0	0	* AG	632	1.7	.0	10.0
D. SR-30 NB SBA	*	0	150	0	0	* AG	0	1.0	.0	10.0
E. SR-30 NB SBD	*	0	0	0	-150	* AG	0	1.0	.0	10.0
F. SR-30 NB SBL	*	-2	150	0	0	* AG	0	1.0	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	* AG	1327	1.5	.0	10.0
H. 5th St. EBD	*	0	0	150	0	* AG	2071	1.3	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	234	1.7	.0	10.0
J. 5th St. WBA	*	150	0	0	0	* AG	1099	1.4	.0	10.0
K. 5th St. WBD	*	0	0	-150	0	* AG	1532	1.1	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	1.0	.0	10.0
M. SR-30 N NBAX	*	0	-750	0	-150	* AG	1376	1.0	.0	10.0
N. SR-30 N NBDX	*	0	150	0	750	* AG	433	1.0	.0	10.0
O. SR-30 N SBAX	*	0	750	0	150	* AG	0	1.0	.0	10.0
P. SR-30 N SBDX	*	0	-150	0	-750	* AG	0	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	* AG	1561	1.0	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	* AG	2071	1.0	.0	10.0
S. 5th St. WBAX	*	750	0	150	0	* AG	1099	1.0	.0	10.0
T. 5th St. WBDX	*	-150	0	-750	0	* AG	1532	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-08 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*		* PRED	*	CONC/LINK								
	*	BRG	* CONC	*	(PPM)								
	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H	
	*		*	*									
1. SE	*	277.	*	.8	*	.0	.0	.0	.0	.0	.0	.3	.0
2. NW	*	97.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.3
3. SW	*	83.	*	.8	*	.0	.0	.0	.0	.0	.0	.0	.3
4. NE	*	263.	*	.7	*	.0	.0	.0	.0	.0	.0	.3	.0
5. ES mdbl	*	277.	*	.7	*	.0	.0	.0	.0	.0	.0	.0	.3
6. WN mdbl	*	97.	*	.7	*	.0	.0	.0	.0	.0	.0	.3	.0
7. WS mdbl	*	83.	*	.7	*	.0	.0	.0	.0	.0	.0	.3	.0
8. EN mdbl	*	263.	*	.7	*	.0	.0	.0	.0	.0	.0	.0	.3
9. SE mdbl	*	352.	*	.5	*	.2	.0	.2	.0	.0	.0	.0	.0
10. NW mdbl	*	177.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	9.	*	.4	*	.2	.0	.1	.0	.0	.0	.0	.0
12. NE mdbl	*	183.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	276.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	175.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	185.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A1A-09 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK		* LINK COORDINATES (M)						EF	H	W
DESCRIPTION		* X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Boulder	NBA *	0	-150	0	0	* AG	1123	1.5	.0	13.5
B. Boulder	NBD *	0	0	0	150	* AG	1177	1.1	.0	10.0
C. Boulder	NBL *	2	-150	0	0	* AG	613	1.7	.0	10.0
D. Boulder	SBA *	0	150	0	0	* AG	836	1.5	.0	13.5
E. Boulder	SBD *	0	0	0	-150	* AG	1231	1.1	.0	10.0
F. Boulder	SBL *	-2	150	0	0	* AG	321	1.7	.0	10.0
G. 5th St.	EBA *	-150	0	0	0	* AG	1456	1.7	.0	13.5
H. 5th St.	EBD *	0	0	150	0	* AG	1386	1.1	.0	10.0
I. 5th St.	EBL *	-150	-2	0	0	* AG	11	1.7	.0	10.0
J. 5th St.	WBA *	150	0	0	0	* AG	262	1.4	.0	13.5
K. 5th St.	WBD *	0	0	-150	0	* AG	832	1.1	.0	10.0
L. 5th St.	WBL *	150	2	0	0	* AG	4	1.7	.0	10.0
M. Boulder	NBAX *	0	-750	0	-150	* AG	1736	1.0	.0	13.5
N. Boulder	NBDX *	0	150	0	750	* AG	1177	1.0	.0	10.0
O. Boulder	SBAX *	0	750	0	150	* AG	1157	1.0	.0	13.5
P. Boulder	SBDX *	0	-150	0	-750	* AG	1231	1.0	.0	10.0
Q. 5th St.	EBAX *	-750	0	-150	0	* AG	1467	1.0	.0	13.5
R. 5th St.	EBDX *	150	0	750	0	* AG	1386	1.0	.0	10.0
S. 5th St.	WBAX *	750	0	150	0	* AG	266	1.0	.0	13.5
T. 5th St.	WBDX *	-150	0	-750	0	* AG	832	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-09 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-09 (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. SE	*	276.	* .8 *	.1	.0	.0	.0	.0	.0	.3	.0
2. NW	*	174.	* .9 *	.2	.0	.1	.0	.2	.0	.2	.0
3. SW	*	6.	* .8 *	.0	.2	.0	.2	.0	.0	.2	.0
4. NE	*	186.	* .8 *	.2	.0	.1	.0	.2	.0	.0	.1
5. ES mdbl	*	275.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.2
6. WN mdbl	*	96.	* .6 *	.0	.0	.0	.0	.0	.0	.4	.0
7. WS mdbl	*	84.	* .6 *	.0	.0	.0	.0	.0	.0	.4	.0
8. EN mdbl	*	265.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.2
9. SE mdbl	*	354.	* .8 *	.3	.0	.2	.0	.2	.0	.0	.0
10. NW mdbl	*	175.	* .7 *	.0	.2	.0	.2	.0	.1	.0	.0
11. SW mdbl	*	6.	* .7 *	.3	.0	.1	.0	.2	.0	.0	.0
12. NE mdbl	*	186.	* .6 *	.0	.2	.0	.2	.0	.0	.0	.0
13. ES blk	*	276.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	95.	* .5 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	85.	* .5 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	175.	* .5 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	5.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	185.	* .5 *	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 4

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-09 (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	Q	R	S	T
1. SE	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.1
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.1
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A1A-10 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Orange S NBA	*	0	-150	0	0	* AG	2185	1.7	.0	10.0
B. Orange S NBD	*	0	0	0	150	* AG	2177	1.3	.0	10.0
C. Orange S NBL	*	2	-150	0	0	* AG	1	1.7	.0	10.0
D. Orange S SBA	*	0	150	0	0	* AG	1474	1.6	.0	10.0
E. Orange S SBD	*	0	0	0	-150	* AG	1483	1.1	.0	10.0
F. Orange S SBL	*	-2	150	0	0	* AG	0	1.0	.0	10.0
G. Cemex Ac EBA	*	-150	0	0	0	* AG	12	1.6	.0	10.0
H. Cemex Ac EBD	*	0	0	150	0	* AG	20	1.2	.0	10.0
I. Cemex Ac EBL	*	-150	-2	0	0	* AG	0	1.0	.0	10.0
J. Cemex Ac WBA	*	150	0	0	0	* AG	16	1.6	.0	10.0
K. Cemex Ac WBD	*	0	0	-150	0	* AG	16	1.2	.0	10.0
L. Cemex Ac WBL	*	150	2	0	0	* AG	8	1.7	.0	10.0
M. Orange NBAX	*	0	-750	0	-150	* AG	2186	1.0	.0	10.0
N. Orange NBDX	*	0	150	0	750	* AG	2177	1.0	.0	10.0
O. Orange SBAX	*	0	750	0	150	* AG	1474	1.0	.0	10.0
P. Orange SBDX	*	0	-150	0	-750	* AG	1483	1.0	.0	10.0
Q. Cemex A EBAX	*	-750	0	-150	0	* AG	12	1.0	.0	10.0
R. Cemex A EBDX	*	150	0	750	0	* AG	20	1.0	.0	10.0
S. Cemex A WBAX	*	750	0	150	0	* AG	24	1.0	.0	10.0
T. Cemex A WBDX	*	-150	0	-750	0	* AG	16	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-10 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1A-10 (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. SE	* 188.	* .8	* .5	.0	.0	.0	.2	.0	.0	.0
2. NW	* 172.	* .7	* .4	.0	.0	.0	.2	.0	.0	.0
3. SW	* 172.	* .8	* .5	.0	.0	.0	.2	.0	.0	.0
4. NE	* 188.	* .7	* .4	.0	.0	.0	.2	.0	.0	.0
5. ES mdbl	* 275.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	* 93.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	* 87.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	* 265.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	* 352.	* .8	* .5	.0	.0	.0	.2	.0	.0	.0
10. NW mdbl	* 173.	* .8	* .0	.3	.0	.3	.0	.0	.0	.0
11. SW mdbl	* 8.	* .8	* .5	.0	.0	.0	.2	.0	.0	.0
12. NE mdbl	* 187.	* .8	* .0	.3	.0	.3	.0	.0	.0	.0
13. ES blk	* 273.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 93.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 87.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 267.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 353.	* .6	* .0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 173.	* .6	* .0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 7.	* .6	* .0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 187.	* .6	* .0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 4

JOB: Upper Santa Ana River Wash
 RUN: 2030A1A-10 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

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

		CONC/LINK											
		(PPM)											
RECEPTOR	*	I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	k	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	k	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	k	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	k	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	k	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	k	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	k	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	k	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0

**UPPER SANTA ANA RIVER WASH
AIR QUALITY CO HOT SPOT ANALYSIS
CALINE4 MODEL PRINTOUTS
FUTURE YEAR (YEAR 2030) LAND USE ALTERNATIVE 1,
ACCESS ALTERNATIVE B WITH PROJECT**

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	4	-150	4	0	* AG	2563	1.7	.0	13.5
B. Palm Ave NBD	*	4	0	4	150	* AG	1218	1.1	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	177	1.7	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	374	1.4	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	806	1.1	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	56	1.7	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	* AG	1015	1.5	.0	10.0
H. 5th St. EBD	*	0	0	150	0	* AG	2392	1.6	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	94	1.7	.0	10.0
J. 5th St. WBA	*	150	5	0	5	* AG	714	1.4	.0	10.0
K. 5th St. WBD	*	0	5	-150	5	* AG	841	1.1	.0	10.0
L. 5th St. WBL	*	150	5	0	0	* AG	264	1.7	.0	10.0
M. Palm Av NBAX	*	4	-750	4	-150	* AG	2740	1.0	.0	13.5
N. Palm Av NBDX	*	4	150	4	750	* AG	1218	1.0	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	430	1.0	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	806	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	* AG	1109	1.0	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	* AG	2392	1.0	.0	10.0
S. 5th St. WBAX	*	750	5	150	5	* AG	978	1.0	.0	10.0
T. 5th St. WBDX	*	-150	5	-750	5	* AG	841	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-01 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	10	-7	1.8
2. NW	*	-12	12	1.8
3. SW	*	-12	-7	1.8
4. NE	*	10	12	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	12	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	12	1.8
9. SE mdbl	*	10	-150	1.8
10. NW mdbl	*	-12	150	1.8
11. SW mdbl	*	-12	-150	1.8
12. NE mdbl	*	10	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	12	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	12	1.8
17. SE blk	*	10	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	10	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		* PRED	*	CONC/LINK							
	*	BRG	* CONC	*	(PPM)							
RECEPTOR	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
	*		*	*								
1. SE	*	187.	* .8	*	.7	.0	.0	.0	.0	.0	.0	.0
2. NW	*	171.	* .6	*	.2	.0	.0	.0	.1	.0	.0	.0
3. SW	*	83.	* .9	*	.2	.0	.0	.0	.0	.0	.0	.4
4. NE	*	186.	* .9	*	.5	.0	.0	.0	.0	.0	.0	.2
5. ES mdbl	*	278.	* .7	*	.0	.0	.0	.0	.0	.0	.0	.5
6. WN mdbl	*	96.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	85.	* .5	*	.0	.0	.0	.0	.0	.0	.2	.0
8. EN mdbl	*	260.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.3
9. SE mdbl	*	353.	* .9	*	.7	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	174.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	12.	* .5	*	.3	.0	.0	.0	.1	.0	.0	.0
12. NE mdbl	*	185.	* .4	*	.0	.2	.0	.0	.0	.0	.0	.0
13. ES blk	*	277.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	263.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	7.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-01 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0
17. SE blk	*	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A1B-02 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	1861	1.7	.0	10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	2765	1.3	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	475	1.7	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	807	1.4	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	988	1.0	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	1	1.7	.0	10.0
G. 3rd St. EBA	*	-150	-7	0	-7	* AG	445	1.7	.0	10.0
H. 3rd St. EBD	*	0	-7	150	-7	* AG	6	1.2	.0	10.0
I. 3rd St. EBL	*	-150	-5	0	0	* AG	892	1.7	.0	10.0
J. 3rd St. WBA	*	150	4	0	4	* AG	20	1.6	.0	13.5
K. 3rd St. WBD	*	0	4	-150	4	* AG	748	1.3	.0	10.0
L. 3rd St. WBL	*	150	2	0	0	* AG	6	1.7	.0	10.0
M. Palm Av NBAX	*	0	-750	0	-150	* AG	2336	1.0	.0	10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	2765	1.0	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	808	1.0	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	988	1.0	.0	10.0
Q. 3rd St. EBAX	*	-750	-7	-150	-7	* AG	1337	1.0	.0	10.0
R. 3rd St. EBDX	*	150	-7	750	-7	* AG	6	1.0	.0	10.0
S. 3rd St. WBAX	*	750	4	150	4	* AG	26	1.0	.0	13.5
T. 3rd St. WBDX	*	-150	4	-750	4	* AG	748	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-02 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-14	1.8
2. NW	*	-12	10	1.8
3. SW	*	-12	-14	1.8
4. NE	*	7	10	1.8
5. ES mdbl	*	150	-14	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-12	150	1.8
11. SW mdbl	*	-12	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*		* PRED	*	CONC/LINK							
	*	BRG	* CONC	*	(PPM)							
	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
	*		*	*								
1. SE	*	188.	*	.7	*	.4	.0	.1	.0	.0	.0	.0
2. NW	*	171.	*	.7	*	.2	.0	.0	.0	.1	.0	.0
3. SW	*	8.	*	.6	*	.0	.2	.0	.1	.0	.0	.0
4. NE	*	188.	*	.7	*	.4	.0	.1	.0	.0	.0	.0
5. ES mdbl	*	273.	*	.2	*	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	103.	*	.4	*	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	78.	*	.4	*	.0	.0	.0	.0	.0	.1	.0
8. EN mdbl	*	267.	*	.2	*	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	352.	*	.8	*	.4	.0	.2	.0	.0	.0	.0
10. NW mdbl	*	173.	*	.5	*	.0	.2	.0	.2	.0	.0	.0
11. SW mdbl	*	7.	*	.5	*	.2	.0	.0	.0	.1	.0	.0
12. NE mdbl	*	188.	*	.7	*	.0	.4	.0	.0	.0	.0	.0
13. ES blk	*	271.	*	.0	*	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	97.	*	.3	*	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	83.	*	.3	*	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	268.	*	.0	*	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	353.	*	.5	*	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.4	*	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	.4	*	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	187.	*	.5	*	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-02 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	2	-150	2	0	* AG	2318	1.7	.0	10.0
B. Palm Ave NBD	*	2	0	2	150	* AG	2337	1.3	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	1.0	.0	10.0
D. Palm Ave SBA	*	0	150	0	0	* AG	1064	1.4	.0	10.0
E. Palm Ave SBD	*	0	0	0	-150	* AG	1067	1.0	.0	10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	7	1.7	.0	10.0
G. Robertso EBA	*	-150	-4	0	-4	* AG	0	1.0	.0	10.0
H. Robertso EBD	*	0	-4	150	-4	* AG	7	1.2	.0	10.0
I. Robertso EBL	*	-150	-2	0	0	* AG	0	1.0	.0	10.0
J. Robertso WBA	*	150	4	0	4	* AG	19	1.6	.0	10.0
K. Robertso WBD	*	0	4	-150	4	* AG	0	1.0	.0	10.0
L. Robertso WBL	*	150	2	0	0	* AG	3	1.7	.0	10.0
M. Palm Av NBAX	*	2	-750	2	-150	* AG	2318	1.0	.0	10.0
N. Palm Av NBDX	*	2	150	2	750	* AG	2337	1.0	.0	10.0
O. Palm Av SBAX	*	0	750	0	150	* AG	1071	1.0	.0	10.0
P. Palm Av SBDX	*	0	-150	0	-750	* AG	1067	1.0	.0	10.0
Q. Roberts EBAX	*	-750	-4	-150	-4	* AG	0	1.0	.0	10.0
R. Roberts EBDX	*	150	-4	750	-4	* AG	7	1.0	.0	10.0
S. Roberts WBAX	*	750	4	150	4	* AG	22	1.0	.0	10.0
T. Roberts WBDX	*	-150	4	-750	4	* AG	0	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-03 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	8	-10	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-10	1.8
4. NE	*	8	10	1.8
5. ES mdbl	*	150	-10	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-10	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	8	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	8	600	1.8

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-03 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	* PRED	*	CONC/LINK							
	* BRG	* CONC	*	(PPM)							
	* (DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
	*	*	*								
1. SE	* 188.	* .7	*	.5	.0	.0	.0	.1	.0	.0	.0
2. NW	* 172.	* .6	*	.4	.0	.0	.0	.1	.0	.0	.0
3. SW	* 171.	* .6	*	.4	.0	.0	.0	.2	.0	.0	.0
4. NE	* 188.	* .7	*	.4	.0	.0	.0	.1	.0	.0	.0
5. ES mdbl	* 311.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	* 127.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	* 122.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	* 230.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	* 352.	* .7	*	.5	.0	.0	.0	.1	.0	.0	.0
10. NW mdbl	* 173.	* .6	*	.0	.3	.0	.2	.0	.0	.0	.0
11. SW mdbl	* 8.	* .6	*	.4	.0	.0	.0	.2	.0	.0	.0
12. NE mdbl	* 187.	* .6	*	.0	.4	.0	.2	.0	.0	.0	.0
13. ES blk	* 273.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 93.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 91.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 266.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 353.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 174.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 6.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 187.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-03 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A1B-04 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	2289	1.7	.0	10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	2318	1.3	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	1.0	.0	10.0
D. Palm Ave SBA	*	-4	150	-4	0	* AG	1047	1.7	.0	10.0
E. Palm Ave SBD	*	-4	0	-4	-150	* AG	1053	1.3	.0	10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	20	1.7	.0	10.0
G. Cemex Ac EBA	*	-150	-5	0	-5	* AG	0	1.0	.0	10.0
H. Cemex Ac EBD	*	0	-5	150	-5	* AG	21	1.2	.0	10.0
I. Cemex Ac EBL	*	-150	-2	0	0	* AG	0	1.0	.0	10.0
J. Cemex Ac WBA	*	150	11	0	11	* AG	30	1.6	.0	10.0
K. Cemex Ac WBD	*	0	11	-150	11	* AG	0	1.0	.0	10.0
L. Cemex Ac WBL	*	150	9	0	0	* AG	6	1.7	.0	10.0
M. Palm Av NBAX	*	0	-750	0	-150	* AG	2289	1.0	.0	10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	2318	1.0	.0	10.0
O. Palm Av SBAX	*	-4	750	-4	150	* AG	1067	1.0	.0	10.0
P. Palm Av SBDX	*	-4	-150	-4	-750	* AG	1053	1.0	.0	10.0
Q. Cemex A EBAX	*	-750	-5	-150	-5	* AG	0	1.0	.0	10.0
R. Cemex A EBDX	*	150	-5	750	-5	* AG	21	1.0	.0	10.0
S. Cemex A WBAX	*	750	11	150	11	* AG	36	1.0	.0	10.0
T. Cemex A WBDX	*	-150	11	-750	11	* AG	0	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-04 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	7	-12	1.8
2. NW	*	-10	17	1.8
3. SW	*	-10	-14	1.8
4. NE	*	7	17	1.8
5. ES mdbl	*	150	-12	1.8
6. WN mdbl	*	-150	17	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	17	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-10	150	1.8
11. SW mdbl	*	-10	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-12	1.8
14. WN blk	*	-600	17	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	17	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-10	600	1.8
19. SW blk	*	-10	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	* PRED	*	CONC/LINK								
	*	BRG	* CONC	*	(PPM)							
	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
1. SE	*	188.	* .7	*	.5	.0	.0	.0	.1	.0	.0	.0
2. NW	*	171.	* .6	*	.3	.0	.0	.0	.1	.0	.0	.0
3. SW	*	171.	* .5	*	.3	.0	.0	.0	.2	.0	.0	.0
4. NE	*	188.	* .7	*	.4	.1	.0	.0	.1	.0	.0	.0
5. ES mdbl	*	307.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	129.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	87.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	232.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	352.	* .7	*	.5	.0	.0	.0	.1	.0	.0	.0
10. NW mdbl	*	173.	* .6	*	.0	.2	.0	.2	.0	.0	.0	.0
11. SW mdbl	*	8.	* .6	*	.3	.0	.0	.0	.2	.0	.0	.0
12. NE mdbl	*	188.	* .6	*	.0	.4	.0	.2	.0	.0	.0	.0
13. ES blk	*	275.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	92.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	90.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	265.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 4

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-04 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Church A NBA	*	9	-150	9	0	* AG	0	1.0	.0	10.0
B. Church A NBD	*	9	0	9	150	* AG	358	1.2	.0	10.0
C. Church A NBL	*	9	-150	0	0	* AG	0	1.0	.0	10.0
D. Church A SBA	*	0	150	0	0	* AG	60	1.6	.0	10.0
E. Church A SBD	*	0	0	0	-150	* AG	0	1.0	.0	10.0
F. Church A SBL	*	-2	150	0	0	* AG	88	1.7	.0	10.0
G. 5th St. EBA	*	-150	-7	0	-7	* AG	2121	1.7	.0	10.0
H. 5th St. EBD	*	0	-7	150	-7	* AG	2209	1.3	.0	10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	163	1.7	.0	10.0
J. 5th St. WBA	*	150	4	0	4	* AG	1118	1.4	.0	10.0
K. 5th St. WBD	*	0	4	-150	4	* AG	983	1.0	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	1.0	.0	10.0
M. Church NBAX	*	9	-750	9	-150	* AG	0	1.0	.0	10.0
N. Church NBDX	*	9	150	9	750	* AG	358	1.0	.0	10.0
O. Church SBAX	*	0	750	0	150	* AG	148	1.0	.0	10.0
P. Church SBDX	*	0	-150	0	-750	* AG	0	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	-7	-150	-7	* AG	2284	1.0	.0	10.0
R. 5th St. EBDX	*	150	-7	750	-7	* AG	2209	1.0	.0	10.0
S. 5th St. WBAX	*	750	4	150	4	* AG	1118	1.0	.0	10.0
T. 5th St. WBDX	*	-150	4	-750	4	* AG	983	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-05 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

	*	COORDINATES (M)		
RECEPTOR	*	X	Y	Z
-----*				
1. SE	*	15	-14	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-14	1.8
4. NE	*	15	10	1.8
5. ES mdbl	*	150	-14	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	15	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	15	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	15	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	15	600	1.8

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-05 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

		*		* PRED	*	CONC/LINK								
		*	BRG	*	CONC	*	(PPM)							
RECEPTOR		*	(DEG)	*	(PPM)	*	A	B	C	D	E	F	G	H
		*		*		*								
1. SE		*	278.	*	.6	*	.0	.0	.0	.0	.0	.0	.4	.0
2. NW		*	98.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.1
3. SW		*	279.	*	.6	*	.0	.0	.0	.0	.0	.0	.5	.0
4. NE		*	260.	*	.5	*	.0	.0	.0	.0	.0	.0	.2	.0
5. ES mdbl	blk	*	278.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.4
6. WN mdbl	blk	*	98.	*	.4	*	.0	.0	.0	.0	.0	.0	.1	.0
7. WS mdbl	blk	*	82.	*	.6	*	.0	.0	.0	.0	.0	.0	.5	.0
8. EN mdbl	blk	*	262.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.1
9. SE mdbl	blk	*	357.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	blk	*	170.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	blk	*	2.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	blk	*	192.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk		*	277.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk		*	97.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk		*	83.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk		*	263.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk		*	358.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk		*	174.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk		*	360.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk		*	186.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A1B-06 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Truck Ac NBA	*	9	-150	9	0	* AG	30	1.6	.0	10.0
B. Truck Ac NBD	*	9	0	9	150	* AG	53	1.1	.0	10.0
C. Truck Ac NBL	*	5	-150	0	0	* AG	0	1.0	.0	10.0
D. Truck Ac SBA	*	-9	150	-9	0	* AG	0	1.0	.0	10.0
E. Truck Ac SBD	*	-9	0	-9	-150	* AG	0	1.0	.0	10.0
F. Truck Ac SBL	*	-5	150	0	0	* AG	0	1.0	.0	10.0
G. 5th St. EBA	*	-150	-9	0	-9	* AG	2209	1.7	.0	10.0
H. 5th St. EBD	*	0	-9	150	-9	* AG	2239	1.3	.0	10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	0	1.0	.0	10.0
J. 5th St. WBA	*	150	9	0	9	* AG	1171	1.4	.0	10.0
K. 5th St. WBD	*	0	9	-150	9	* AG	1118	1.0	.0	10.0
L. 5th St. WBL	*	150	5	0	0	* AG	0	1.0	.0	10.0
M. Truck A NBAX	*	9	-750	9	-150	* AG	30	1.0	.0	10.0
N. Truck A NBDX	*	9	150	9	750	* AG	53	1.0	.0	10.0
O. Truck A SBAX	*	-9	750	-9	150	* AG	0	1.0	.0	10.0
P. Truck A SBDX	*	-9	-150	-9	-750	* AG	0	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	-9	-150	-9	* AG	2209	1.0	.0	10.0
R. 5th St. EBDX	*	150	-9	750	-9	* AG	2239	1.0	.0	10.0
S. 5th St. WBAX	*	750	9	150	9	* AG	1171	1.0	.0	10.0
T. 5th St. WBDX	*	-150	9	-750	9	* AG	1118	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	17	-15	1.8
2. NW	*	-17	15	1.8
3. SW	*	-15	-17	1.8
4. NE	*	15	17	1.8
5. ES mdbl k	*	150	-15	1.8
6. WN mdbl k	*	-150	15	1.8
7. WS mdbl k	*	-150	-17	1.8
8. EN mdbl k	*	150	17	1.8
9. SE mdbl k	*	17	-150	1.8
10. NW mdbl k	*	-17	150	1.8
11. SW mdbl k	*	-15	-150	1.8
12. NE mdbl k	*	15	150	1.8
13. ES blk	*	600	-15	1.8
14. WN blk	*	-600	15	1.8
15. WS blk	*	-600	-17	1.8
16. EN blk	*	600	17	1.8
17. SE blk	*	17	-600	1.8
18. NW blk	*	-17	600	1.8
19. SW blk	*	-15	-600	1.8
20. NE blk	*	15	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-06 (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. SE	* 278.	* .6 *	.0	.0	.0	.0	.0	.0	.4	.1
2. NW	* 98.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	* 280.	* .5 *	.0	.0	.0	.0	.0	.0	.4	.0
4. NE	* 100.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	* 278.	* .5 *	.0	.0	.0	.0	.0	.0	.0	.4
6. WN mdbl	* 99.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	* 81.	* .5 *	.0	.0	.0	.0	.0	.0	.4	.0
8. EN mdbl	* 261.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	* 316.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	* 113.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	* 68.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	* 186.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	* 277.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 97.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 83.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 262.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 356.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 174.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 5.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 184.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A1B-07 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. SR-30 SB NBA	*	2	-150	2	0	* AG	0	1.0	.0	10.0
B. SR-30 SB NBD	*	2	0	2	150	* AG	0	1.0	.0	10.0
C. SR-30 SB NBL	*	2	-150	0	0	* AG	0	1.0	.0	10.0
D. SR-30 SB SBA	*	-2	150	-2	0	* AG	135	1.6	.0	10.0
E. SR-30 SB SBD	*	-2	0	-2	-150	* AG	1449	1.7	.0	10.0
F. SR-30 SB SBL	*	-2	150	0	0	* AG	248	1.7	.0	10.0
G. 5th St. EBA	*	-150	-4	0	-4	* AG	2395	1.7	.0	13.5
H. 5th St. EBD	*	0	-4	150	-4	* AG	1682	1.2	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	0	1.0	.0	10.0
J. 5th St. WBA	*	150	2	0	2	* AG	1003	1.4	.0	10.0
K. 5th St. WBD	*	0	2	-150	2	* AG	1138	1.0	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	488	1.7	.0	10.0
M. SR-30 S NBAX	*	2	-750	2	-150	* AG	0	1.0	.0	10.0
N. SR-30 S NBDX	*	2	150	2	750	* AG	0	1.0	.0	10.0
O. SR-30 S SBAX	*	-2	750	-2	150	* AG	383	1.0	.0	10.0
P. SR-30 S SBDX	*	-2	-150	-2	-750	* AG	1449	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	-4	-150	-4	* AG	2395	1.0	.0	13.5
R. 5th St. EBDX	*	150	-4	750	-4	* AG	1682	1.0	.0	10.0
S. 5th St. WBAX	*	750	2	150	2	* AG	1491	1.0	.0	10.0
T. 5th St. WBDX	*	-150	2	-750	2	* AG	1138	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-07 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z

1. SE	*	8	-10	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-10	1.8
4. NE	*	8	8	1.8
5. ES mdbl k	*	150	-10	1.8
6. WN mdbl k	*	-150	8	1.8
7. WS mdbl k	*	-150	-10	1.8
8. EN mdbl k	*	150	8	1.8
9. SE mdbl k	*	8	-150	1.8
10. NW mdbl k	*	-8	150	1.8
11. SW mdbl k	*	-8	-150	1.8
12. NE mdbl k	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	8	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-8	600	1.8
19. SW blk	*	-8	-600	1.8
20. NE blk	*	8	600	1.8

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-07 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-07 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W	
DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	(M)
A. SR-30 NB NBA	*	0	-150	0	0	*	AG	744	1.7	.0	10.0
B. SR-30 NB NBD	*	0	0	0	150	*	AG	433	1.5	.0	10.0
C. SR-30 NB NBL	*	2	-150	0	0	*	AG	632	1.7	.0	10.0
D. SR-30 NB SBA	*	0	150	0	0	*	AG	0	1.0	.0	10.0
E. SR-30 NB SBD	*	0	0	0	-150	*	AG	0	1.0	.0	10.0
F. SR-30 NB SBL	*	-2	150	0	0	*	AG	0	1.0	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	*	AG	1327	1.5	.0	10.0
H. 5th St. EBD	*	0	0	150	0	*	AG	2071	1.3	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	*	AG	234	1.7	.0	10.0
J. 5th St. WBA	*	150	0	0	0	*	AG	1099	1.4	.0	10.0
K. 5th St. WBD	*	0	0	-150	0	*	AG	1532	1.1	.0	10.0
L. 5th St. WBL	*	150	2	0	0	*	AG	0	1.0	.0	10.0
M. SR-30 N NBAX	*	0	-750	0	-150	*	AG	1376	1.0	.0	10.0
N. SR-30 N NBDX	*	0	150	0	750	*	AG	433	1.0	.0	10.0
O. SR-30 N SBAX	*	0	750	0	150	*	AG	0	1.0	.0	10.0
P. SR-30 N SBDX	*	0	-150	0	-750	*	AG	0	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	*	AG	1561	1.0	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	*	AG	2071	1.0	.0	10.0
S. 5th St. WBAX	*	750	0	150	0	*	AG	1099	1.0	.0	10.0
T. 5th St. WBDX	*	-150	0	-750	0	*	AG	1532	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-08 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*			
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		* PRED	*	CONC/LINK							
	*	BRG	* CONC	*	(PPM)							
RECEPTOR	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
	*		*	*								
1. SE	*	277.	* .8	*	.0	.0	.0	.0	.0	.0	.3	.0
2. NW	*	97.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.3
3. SW	*	83.	* .8	*	.0	.0	.0	.0	.0	.0	.0	.3
4. NE	*	263.	* .7	*	.0	.0	.0	.0	.0	.0	.3	.0
5. ES mdbl	*	277.	* .7	*	.0	.0	.0	.0	.0	.0	.0	.3
6. WN mdbl	*	97.	* .7	*	.0	.0	.0	.0	.0	.0	.3	.0
7. WS mdbl	*	83.	* .7	*	.0	.0	.0	.0	.0	.0	.3	.0
8. EN mdbl	*	263.	* .7	*	.0	.0	.0	.0	.0	.0	.0	.3
9. SE mdbl	*	352.	* .5	*	.2	.0	.2	.0	.0	.0	.0	.0
10. NW mdbl	*	177.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	9.	* .4	*	.2	.0	.1	.0	.0	.0	.0	.0
12. NE mdbl	*	183.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	276.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	175.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	185.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A1B-09 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK		* LINK COORDINATES (M)	*				EF	H	W	
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Boulder	NBA *	0	-150	0	0	* AG	1123	1.5	.0	13.5
B. Boulder	NBD *	0	0	0	150	* AG	1177	1.1	.0	10.0
C. Boulder	NBL *	2	-150	0	0	* AG	613	1.7	.0	10.0
D. Boulder	SBA *	0	150	0	0	* AG	836	1.5	.0	13.5
E. Boulder	SBD *	0	0	0	-150	* AG	1231	1.1	.0	10.0
F. Boulder	SBL *	-2	150	0	0	* AG	321	1.7	.0	10.0
G. 5th St.	EBA *	-150	0	0	0	* AG	1456	1.7	.0	13.5
H. 5th St.	EBD *	0	0	150	0	* AG	1386	1.1	.0	10.0
I. 5th St.	EBL *	-150	-2	0	0	* AG	11	1.7	.0	10.0
J. 5th St.	WBA *	150	0	0	0	* AG	262	1.4	.0	13.5
K. 5th St.	WBD *	0	0	-150	0	* AG	832	1.1	.0	10.0
L. 5th St.	WBL *	150	2	0	0	* AG	4	1.7	.0	10.0
M. Boulder	NBAX *	0	-750	0	-150	* AG	1736	1.0	.0	13.5
N. Boulder	NBDX *	0	150	0	750	* AG	1177	1.0	.0	10.0
O. Boulder	SBAX *	0	750	0	150	* AG	1157	1.0	.0	13.5
P. Boulder	SBDX *	0	-150	0	-750	* AG	1231	1.0	.0	10.0
Q. 5th St.	EBAX *	-750	0	-150	0	* AG	1467	1.0	.0	13.5
R. 5th St.	EBDX *	150	0	750	0	* AG	1386	1.0	.0	10.0
S. 5th St.	WBAX *	750	0	150	0	* AG	266	1.0	.0	13.5
T. 5th St.	WBDX *	-150	0	-750	0	* AG	832	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-09 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-09 (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. SE	* 276.	* .8 *	.1	.0	.0	.0	.0	.0	.3	.0
2. NW	* 174.	* .9 *	.2	.0	.1	.0	.2	.0	.2	.0
3. SW	* 6.	* .8 *	.0	.2	.0	.2	.0	.0	.2	.0
4. NE	* 186.	* .8 *	.2	.0	.1	.0	.2	.0	.0	.1
5. ES mdbl k	* 275.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.2
6. WN mdbl k	* 96.	* .6 *	.0	.0	.0	.0	.0	.0	.4	.0
7. WS mdbl k	* 84.	* .6 *	.0	.0	.0	.0	.0	.0	.4	.0
8. EN mdbl k	* 265.	* .4 *	.0	.0	.0	.0	.0	.0	.0	.2
9. SE mdbl k	* 354.	* .8 *	.3	.0	.2	.0	.2	.0	.0	.0
10. NW mdbl k	* 175.	* .7 *	.0	.2	.0	.2	.0	.1	.0	.0
11. SW mdbl k	* 6.	* .7 *	.3	.0	.1	.0	.2	.0	.0	.0
12. NE mdbl k	* 186.	* .6 *	.0	.2	.0	.2	.0	.0	.0	.0
13. ES blk	* 276.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 95.	* .5 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 85.	* .5 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 264.	* .3 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 354.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 175.	* .5 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 5.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 185.	* .5 *	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-09 (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	Q	R	S	T
1. SE	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.1
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.1
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Orange S NBA	*	0	-150	0	0	* AG	2185	1.7	.0	10.0
B. Orange S NBD	*	0	0	0	150	* AG	2177	1.3	.0	10.0
C. Orange S NBL	*	2	-150	0	0	* AG	1	1.7	.0	10.0
D. Orange S SBA	*	0	150	0	0	* AG	1474	1.6	.0	10.0
E. Orange S SBD	*	0	0	0	-150	* AG	1483	1.1	.0	10.0
F. Orange S SBL	*	-2	150	0	0	* AG	0	1.0	.0	10.0
G. Cemex Ac EBA	*	-150	0	0	0	* AG	12	1.6	.0	10.0
H. Cemex Ac EBD	*	0	0	150	0	* AG	20	1.2	.0	10.0
I. Cemex Ac EBL	*	-150	-2	0	0	* AG	0	1.0	.0	10.0
J. Cemex Ac WBA	*	150	0	0	0	* AG	16	1.6	.0	10.0
K. Cemex Ac WBD	*	0	0	-150	0	* AG	16	1.2	.0	10.0
L. Cemex Ac WBL	*	150	2	0	0	* AG	8	1.7	.0	10.0
M. Orange NBAX	*	0	-750	0	-150	* AG	2186	1.0	.0	10.0
N. Orange NBDX	*	0	150	0	750	* AG	2177	1.0	.0	10.0
O. Orange SBAX	*	0	750	0	150	* AG	1474	1.0	.0	10.0
P. Orange SBDX	*	0	-150	0	-750	* AG	1483	1.0	.0	10.0
Q. Cemex A EBAX	*	-750	0	-150	0	* AG	12	1.0	.0	10.0
R. Cemex A EBDX	*	150	0	750	0	* AG	20	1.0	.0	10.0
S. Cemex A WBAX	*	750	0	150	0	* AG	24	1.0	.0	10.0
T. Cemex A WBDX	*	-150	0	-750	0	* AG	16	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A1B-10 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-10 (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. SE	* 188.	* .8 *	.5	.0	.0	.0	.2	.0	.0	.0
2. NW	* 172.	* .7 *	.4	.0	.0	.0	.2	.0	.0	.0
3. SW	* 172.	* .8 *	.5	.0	.0	.0	.2	.0	.0	.0
4. NE	* 188.	* .7 *	.4	.0	.0	.0	.2	.0	.0	.0
5. ES mdbl k	* 275.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl k	* 93.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl k	* 87.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl k	* 265.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl k	* 352.	* .8 *	.5	.0	.0	.0	.2	.0	.0	.0
10. NW mdbl k	* 173.	* .8 *	.0	.3	.0	.3	.0	.0	.0	.0
11. SW mdbl k	* 8.	* .8 *	.5	.0	.0	.0	.2	.0	.0	.0
12. NE mdbl k	* 187.	* .8 *	.0	.3	.0	.3	.0	.0	.0	.0
13. ES blk	* 273.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 93.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 87.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 267.	* .0 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 353.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 173.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 7.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 187.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030A1B-10 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0

**UPPER SANTA ANA RIVER WASH
AIR QUALITY CO HOT SPOT ANALYSIS
CALINE4 MODEL PRINTOUTS
FUTURE YEAR (YEAR 2030) LAND USE ALTERNATIVE 2 WITH PROJECT**

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

JOB: Upper Santa Ana River Wash
RUN: 2030A2-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	4	-150	4	0	* AG	2578	1.7	.0	13.5
B. Palm Ave NBD	*	4	0	4	150	* AG	1218	1.1	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	177	1.7	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	374	1.4	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	850	1.1	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	56	1.7	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	* AG	1016	1.5	.0	10.0
H. 5th St. EBD	*	0	0	150	0	* AG	2409	1.6	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	94	1.7	.0	10.0
J. 5th St. WBA	*	150	5	0	5	* AG	715	1.4	.0	10.0
K. 5th St. WBD	*	0	5	-150	5	* AG	842	1.1	.0	10.0
L. 5th St. WBL	*	150	5	0	0	* AG	309	1.7	.0	10.0
M. Palm Av NBAX	*	4	-750	4	-150	* AG	2755	1.0	.0	13.5
N. Palm Av NBDX	*	4	150	4	750	* AG	1218	1.0	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	430	1.0	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	850	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	* AG	1110	1.0	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	* AG	2409	1.0	.0	10.0
S. 5th St. WBAX	*	750	5	150	5	* AG	1024	1.0	.0	10.0
T. 5th St. WBDX	*	-150	5	-750	5	* AG	842	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-01 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	10	-7	1.8
2. NW	*	-12	12	1.8
3. SW	*	-12	-7	1.8
4. NE	*	10	12	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	12	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	12	1.8
9. SE mdbl	*	10	-150	1.8
10. NW mdbl	*	-12	150	1.8
11. SW mdbl	*	-12	-150	1.8
12. NE mdbl	*	10	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	12	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	12	1.8
17. SE blk	*	10	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	10	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A2-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	*	PRED	*	CONC/LINK								
	*	BRG	*	CONC	*	(PPM)							
	*	(DEG)	*	(PPM)	*	A	B	C	D	E	F	G	H

1. SE	*	187.	*	.8	*	.7	.0	.0	.0	.0	.0	.0	.0
2. NW	*	171.	*	.6	*	.2	.0	.0	.0	.1	.0	.0	.0
3. SW	*	83.	*	.9	*	.2	.0	.0	.0	.0	.0	.0	.4
4. NE	*	186.	*	.9	*	.5	.0	.0	.0	.0	.0	.0	.2
5. ES mdbl	*	278.	*	.7	*	.0	.0	.0	.0	.0	.0	.0	.5
6. WN mdbl	*	96.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	85.	*	.5	*	.0	.0	.0	.0	.0	.0	.2	.0
8. EN mdbl	*	260.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.3
9. SE mdbl	*	353.	*	.9	*	.7	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	174.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	12.	*	.5	*	.3	.0	.0	.0	.1	.0	.0	.0
12. NE mdbl	*	185.	*	.4	*	.0	.2	.0	.0	.0	.0	.0	.0
13. ES blk	*	277.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	263.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	7.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030A2-01 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl k	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl k	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl k	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl k	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl k	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl k	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl k	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl k	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0
17. SE blk	*	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A2-02 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	366. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	1876	1.7	.0	10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	2780	1.3	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	475	1.7	.0	10.0
D. Palm Ave SBA	*	-5	150	-5	0	* AG	851	1.4	.0	10.0
E. Palm Ave SBD	*	-5	0	-5	-150	* AG	1032	1.0	.0	10.0
F. Palm Ave SBL	*	-5	150	0	0	* AG	1	1.7	.0	10.0
G. 3rd St. EBA	*	-150	-7	0	-7	* AG	445	1.7	.0	10.0
H. 3rd St. EBD	*	0	-7	150	-7	* AG	6	1.2	.0	10.0
I. 3rd St. EBL	*	-150	-5	0	0	* AG	892	1.7	.0	10.0
J. 3rd St. WBA	*	150	4	0	4	* AG	20	1.6	.0	10.0
K. 3rd St. WBD	*	0	4	-150	4	* AG	748	1.7	.0	10.0
L. 3rd St. WBL	*	150	2	0	0	* AG	6	1.7	.0	10.0
M. Palm Av NBAX	*	0	-750	0	-150	* AG	2351	1.0	.0	10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	2780	1.0	.0	10.0
O. Palm Av SBAX	*	-5	750	-5	150	* AG	852	1.0	.0	10.0
P. Palm Av SBDX	*	-5	-150	-5	-750	* AG	1032	1.0	.0	10.0
Q. 3rd St. EBAX	*	-750	-7	-150	-7	* AG	1337	1.0	.0	10.0
R. 3rd St. EBDX	*	150	-7	750	-7	* AG	6	1.0	.0	10.0
S. 3rd St. WBAX	*	750	4	150	4	* AG	26	1.0	.0	10.0
T. 3rd St. WBDX	*	-150	4	-750	4	* AG	748	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-02 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

	*	COORDINATES (M)		
RECEPTOR	*	X	Y	Z
-----*				
1. SE	*	7	-14	1.8
2. NW	*	-12	10	1.8
3. SW	*	-12	-14	1.8
4. NE	*	7	10	1.8
5. ES mdbl	*	150	-14	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-12	150	1.8
11. SW mdbl	*	-12	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A2-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*		* PRED	*	CONC/LINK							
	*	BRG	* CONC	*	(PPM)							
	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
	*		*	*								
1. SE	*	188.	*	.7 *	.4	.0	.1	.0	.0	.0	.0	.0
2. NW	*	171.	*	.7 *	.2	.0	.0	.0	.1	.0	.0	.0
3. SW	*	8.	*	.6 *	.0	.2	.0	.1	.0	.0	.0	.0
4. NE	*	261.	*	.7 *	.0	.2	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	273.	*	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	102.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	77.	*	.4 *	.0	.0	.0	.0	.0	.0	.1	.0
8. EN mdbl	*	267.	*	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	352.	*	.8 *	.4	.0	.2	.0	.0	.0	.0	.0
10. NW mdbl	*	173.	*	.5 *	.0	.2	.0	.2	.0	.0	.0	.0
11. SW mdbl	*	7.	*	.5 *	.2	.0	.0	.0	.1	.0	.0	.0
12. NE mdbl	*	188.	*	.7 *	.0	.4	.0	.0	.0	.0	.0	.0
13. ES blk	*	271.	*	.0 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	97.	*	.3 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	83.	*	.3 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	268.	*	.0 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	353.	*	.5 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	187.	*	.5 *	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 4

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-02 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0

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

JOB: Upper Santa Ana River Wash
RUN: 2030A2-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	2	-150	2	0	* AG	2318	1.7	.0	10.0
B. Palm Ave NBD	*	2	0	2	150	* AG	2352	1.3	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	1.0	.0	10.0
D. Palm Ave SBA	*	0	150	0	0	* AG	1063	1.4	.0	10.0
E. Palm Ave SBD	*	0	0	0	-150	* AG	1066	1.0	.0	10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	52	1.7	.0	10.0
G. Robertso EBA	*	-150	-4	0	-4	* AG	0	1.0	.0	10.0
H. Robertso EBD	*	0	-4	150	-4	* AG	52	1.2	.0	10.0
I. Robertso EBL	*	-150	-2	0	0	* AG	0	1.0	.0	10.0
J. Robertso WBA	*	150	4	0	4	* AG	34	1.6	.0	10.0
K. Robertso WBD	*	0	4	-150	4	* AG	0	1.0	.0	10.0
L. Robertso WBL	*	150	2	0	0	* AG	3	1.7	.0	10.0
M. Palm Av NBAX	*	2	-750	2	-150	* AG	2318	1.0	.0	10.0
N. Palm Av NBDX	*	2	150	2	750	* AG	2352	1.0	.0	10.0
O. Palm Av SBAX	*	0	750	0	150	* AG	1115	1.0	.0	10.0
P. Palm Av SBDX	*	0	-150	0	-750	* AG	1066	1.0	.0	10.0
Q. Roberts EBAX	*	-750	-4	-150	-4	* AG	0	1.0	.0	10.0
R. Roberts EBDX	*	150	-4	750	-4	* AG	52	1.0	.0	10.0
S. Roberts WBAX	*	750	4	150	4	* AG	37	1.0	.0	10.0
T. Roberts WBDX	*	-150	4	-750	4	* AG	0	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-03 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	8	-10	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-10	1.8
4. NE	*	8	10	1.8
5. ES mdbl k	*	150	-10	1.8
6. WN mdbl k	*	-150	10	1.8
7. WS mdbl k	*	-150	-10	1.8
8. EN mdbl k	*	150	10	1.8
9. SE mdbl k	*	8	-150	1.8
10. NW mdbl k	*	-7	150	1.8
11. SW mdbl k	*	-7	-150	1.8
12. NE mdbl k	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	8	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A2-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	* PRED	*	CONC/LINK							
	* BRG	* CONC	*	(PPM)							
	* (DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
	*	*	*								
1. SE	* 188.	* .7	*	.5	.0	.0	.0	.1	.0	.0	.0
2. NW	* 172.	* .6	*	.4	.0	.0	.0	.1	.0	.0	.0
3. SW	* 171.	* .6	*	.4	.0	.0	.0	.2	.0	.0	.0
4. NE	* 188.	* .7	*	.4	.0	.0	.0	.1	.0	.0	.0
5. ES mdbl	* 280.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	* 93.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	* 88.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	* 260.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	* 352.	* .7	*	.5	.0	.0	.0	.1	.0	.0	.0
10. NW mdbl	* 173.	* .6	*	.0	.3	.0	.2	.0	.0	.0	.0
11. SW mdbl	* 8.	* .6	*	.4	.0	.0	.0	.2	.0	.0	.0
12. NE mdbl	* 188.	* .6	*	.0	.4	.0	.2	.0	.0	.0	.0
13. ES blk	* 275.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 91.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 90.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 265.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 353.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 174.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 6.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 187.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030A2-03 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0

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

JOB: Upper Santa Ana River Wash
RUN: 2030A2-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 366. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Palm Ave NBA	*	0	-150	0	0	* AG	2289	1.7	.0	10.0
B. Palm Ave NBD	*	0	0	0	150	* AG	2318	1.3	.0	10.0
C. Palm Ave NBL	*	2	-150	0	0	* AG	0	1.0	.0	10.0
D. Palm Ave SBA	*	-4	150	-4	0	* AG	1047	1.7	.0	10.0
E. Palm Ave SBD	*	-4	0	-4	-150	* AG	1053	1.3	.0	10.0
F. Palm Ave SBL	*	-2	150	0	0	* AG	19	1.7	.0	10.0
G. Cemex Ac EBA	*	-150	-5	0	-5	* AG	0	1.0	.0	10.0
H. Cemex Ac EBD	*	0	-5	150	-5	* AG	20	1.2	.0	10.0
I. Cemex Ac EBL	*	-150	-2	0	0	* AG	0	1.0	.0	10.0
J. Cemex Ac WBA	*	150	11	0	11	* AG	30	1.6	.0	10.0
K. Cemex Ac WBD	*	0	11	-150	11	* AG	0	1.0	.0	10.0
L. Cemex Ac WBL	*	150	9	0	0	* AG	6	1.7	.0	10.0
M. Palm Av NBAX	*	0	-750	0	-150	* AG	2289	1.0	.0	10.0
N. Palm Av NBDX	*	0	150	0	750	* AG	2318	1.0	.0	10.0
O. Palm Av SBAX	*	-4	750	-4	150	* AG	1066	1.0	.0	10.0
P. Palm Av SBDX	*	-4	-150	-4	-750	* AG	1053	1.0	.0	10.0
Q. Cemex A EBAX	*	-750	-5	-150	-5	* AG	0	1.0	.0	10.0
R. Cemex A EBDX	*	150	-5	750	-5	* AG	20	1.0	.0	10.0
S. Cemex A WBAX	*	750	11	150	11	* AG	36	1.0	.0	10.0
T. Cemex A WBDX	*	-150	11	-750	11	* AG	0	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-04 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. SE	*	7	-12	1.8
2. NW	*	-10	17	1.8
3. SW	*	-10	-14	1.8
4. NE	*	7	17	1.8
5. ES mdbl	*	150	-12	1.8
6. WN mdbl	*	-150	17	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	17	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-10	150	1.8
11. SW mdbl	*	-10	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-12	1.8
14. WN blk	*	-600	17	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	17	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-10	600	1.8
19. SW blk	*	-10	-600	1.8
20. NE blk	*	7	600	1.8

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-04 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Upper Santa Ana River Wash
RUN: 2030A2-04 (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	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A2-05 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*	EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)
A. Church A NBA	*	9	-150	9	0	* AG	0	1.0	.0 10.0
B. Church A NBD	*	9	0	9	150	* AG	358	1.2	.0 10.0
C. Church A NBL	*	9	-150	0	0	* AG	0	1.0	.0 10.0
D. Church A SBA	*	0	150	0	0	* AG	60	1.6	.0 10.0
E. Church A SBD	*	0	0	0	-150	* AG	0	1.0	.0 10.0
F. Church A SBL	*	-2	150	0	0	* AG	88	1.7	.0 10.0
G. 5th St. EBA	*	-150	-7	0	-7	* AG	2138	1.7	.0 10.0
H. 5th St. EBD	*	0	-7	150	-7	* AG	2226	1.3	.0 10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	163	1.7	.0 10.0
J. 5th St. WBA	*	150	4	0	4	* AG	1164	1.4	.0 10.0
K. 5th St. WBD	*	0	4	-150	4	* AG	1029	1.0	.0 10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	1.0	.0 10.0
M. Church NBAX	*	9	-750	9	-150	* AG	0	1.0	.0 10.0
N. Church NBDX	*	9	150	9	750	* AG	358	1.0	.0 10.0
O. Church SBAX	*	0	750	0	150	* AG	148	1.0	.0 10.0
P. Church SBDX	*	0	-150	0	-750	* AG	0	1.0	.0 10.0
Q. 5th St. EBAX	*	-750	-7	-150	-7	* AG	2301	1.0	.0 10.0
R. 5th St. EBDX	*	150	-7	750	-7	* AG	2226	1.0	.0 10.0
S. 5th St. WBAX	*	750	4	150	4	* AG	1164	1.0	.0 10.0
T. 5th St. WBDX	*	-150	4	-750	4	* AG	1029	1.0	.0 10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-05 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	15	-14	1.8
2. NW	*	-7	10	1.8
3. SW	*	-7	-14	1.8
4. NE	*	15	10	1.8
5. ES mdbl	*	150	-14	1.8
6. WN mdbl	*	-150	10	1.8
7. WS mdbl	*	-150	-14	1.8
8. EN mdbl	*	150	10	1.8
9. SE mdbl	*	15	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	15	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	10	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	10	1.8
17. SE blk	*	15	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	15	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A2-05 (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. SE	*	278.	*	.6	*	.0	.0	.0	.0	.0	.0	.4	.0
2. NW	*	98.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.1
3. SW	*	279.	*	.6	*	.0	.0	.0	.0	.0	.0	.5	.0
4. NE	*	260.	*	.5	*	.0	.0	.0	.0	.0	.0	.2	.0
5. ES mdbl	*	278.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.4
6. WN mdbl	*	98.	*	.4	*	.0	.0	.0	.0	.0	.0	.1	.0
7. WS mdbl	*	82.	*	.7	*	.0	.0	.0	.0	.0	.0	.5	.0
8. EN mdbl	*	262.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.1
9. SE mdbl	*	358.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	170.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	2.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	192.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	277.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	97.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	83.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	263.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	358.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	360.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-05 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: 2030A2-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Truck Ac NBA	*	9	-150	9	0	* AG	0	1.0	.0	10.0
B. Truck Ac NBD	*	9	0	9	150	* AG	0	1.0	.0	10.0
C. Truck Ac NBL	*	5	-150	0	0	* AG	0	1.0	.0	10.0
D. Truck Ac SBA	*	-9	150	-9	0	* AG	0	1.0	.0	10.0
E. Truck Ac SBD	*	-9	0	-9	-150	* AG	0	1.0	.0	10.0
F. Truck Ac SBL	*	-5	150	0	0	* AG	0	1.0	.0	10.0
G. 5th St. EBA	*	-150	-9	0	-9	* AG	0	1.0	.0	10.0
H. 5th St. EBD	*	0	-9	150	-9	* AG	0	1.0	.0	10.0
I. 5th St. EBL	*	-150	-5	0	0	* AG	0	1.0	.0	10.0
J. 5th St. WBA	*	150	9	0	9	* AG	0	1.0	.0	10.0
K. 5th St. WBD	*	0	9	-150	9	* AG	0	1.0	.0	10.0
L. 5th St. WBL	*	150	5	0	0	* AG	0	1.0	.0	10.0
M. Truck A NBAX	*	9	-750	9	-150	* AG	0	1.0	.0	10.0
N. Truck A NBDX	*	9	150	9	750	* AG	0	1.0	.0	10.0
O. Truck A SBAX	*	-9	750	-9	150	* AG	0	1.0	.0	10.0
P. Truck A SBDX	*	-9	-150	-9	-750	* AG	0	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	-9	-150	-9	* AG	0	1.0	.0	10.0
R. 5th St. EBDX	*	150	-9	750	-9	* AG	0	1.0	.0	10.0
S. 5th St. WBAX	*	750	9	150	9	* AG	0	1.0	.0	10.0
T. 5th St. WBDX	*	-150	9	-750	9	* AG	0	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	17	-15	1.8
2. NW	*	-17	15	1.8
3. SW	*	-15	-17	1.8
4. NE	*	15	17	1.8
5. ES mdbl k	*	150	-15	1.8
6. WN mdbl k	*	-150	15	1.8
7. WS mdbl k	*	-150	-17	1.8
8. EN mdbl k	*	150	17	1.8
9. SE mdbl k	*	17	-150	1.8
10. NW mdbl k	*	-17	150	1.8
11. SW mdbl k	*	-15	-150	1.8
12. NE mdbl k	*	15	150	1.8
13. ES blk	*	600	-15	1.8
14. WN blk	*	-600	15	1.8
15. WS blk	*	-600	-17	1.8
16. EN blk	*	600	17	1.8
17. SE blk	*	17	-600	1.8
18. NW blk	*	-17	600	1.8
19. SW blk	*	-15	-600	1.8
20. NE blk	*	15	600	1.8

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-06 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

JOB: Upper Santa Ana River Wash
RUN: 2030A2-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: 2030A2-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. SR-30 SB NBA	*	2	-150	2	0	* AG	0	1.0	.0	10.0
B. SR-30 SB NBD	*	2	0	2	150	* AG	0	1.0	.0	10.0
C. SR-30 SB NBL	*	2	-150	0	0	* AG	0	1.0	.0	10.0
D. SR-30 SB SBA	*	-2	150	-2	0	* AG	134	1.6	.0	10.0
E. SR-30 SB SBD	*	-2	0	-2	-150	* AG	1454	1.7	.0	10.0
F. SR-30 SB SBL	*	-2	150	0	0	* AG	251	1.7	.0	10.0
G. 5th St. EBA	*	-150	-4	0	-4	* AG	2384	1.7	.0	13.5
H. 5th St. EBD	*	0	-4	150	-4	* AG	1685	1.2	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	0	1.0	.0	10.0
J. 5th St. WBA	*	150	2	0	2	* AG	997	1.4	.0	10.0
K. 5th St. WBD	*	0	2	-150	2	* AG	1131	1.0	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	504	1.7	.0	10.0
M. SR-30 S NBAX	*	2	-750	2	-150	* AG	0	1.0	.0	10.0
N. SR-30 S NBDX	*	2	150	2	750	* AG	0	1.0	.0	10.0
O. SR-30 S SBAX	*	-2	750	-2	150	* AG	385	1.0	.0	10.0
P. SR-30 S SBDX	*	-2	-150	-2	-750	* AG	1454	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	-4	-150	-4	* AG	2384	1.0	.0	13.5
R. 5th St. EBDX	*	150	-4	750	-4	* AG	1685	1.0	.0	10.0
S. 5th St. WBAX	*	750	2	150	2	* AG	1501	1.0	.0	10.0
T. 5th St. WBDX	*	-150	2	-750	2	* AG	1131	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-07 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	8	-10	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-10	1.8
4. NE	*	8	8	1.8
5. ES mdbl	*	150	-10	1.8
6. WN mdbl	*	-150	8	1.8
7. WS mdbl	*	-150	-10	1.8
8. EN mdbl	*	150	8	1.8
9. SE mdbl	*	8	-150	1.8
10. NW mdbl	*	-8	150	1.8
11. SW mdbl	*	-8	-150	1.8
12. NE mdbl	*	8	150	1.8
13. ES blk	*	600	-10	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-10	1.8
16. EN blk	*	600	8	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-8	600	1.8
19. SW blk	*	-8	-600	1.8
20. NE blk	*	8	600	1.8

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-07 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* * * * *	BRG (DEG)	* * * * *	PRED CONC (PPM)	A	B	C	D	E	F	G	H
1. SE	*	276.	*	.8 *	.0	.0	.0	.0	.1	.0	.5	.0
2. NW	*	173.	*	.6 *	.0	.0	.0	.0	.3	.0	.2	.0
3. SW	*	82.	*	.8 *	.0	.0	.0	.0	.2	.0	.1	.2
4. NE	*	261.	*	.6 *	.0	.0	.0	.0	.0	.0	.3	.0
5. ES mdbl	*	277.	*	.6 *	.0	.0	.0	.0	.0	.0	.0	.3
6. WN mdbl	*	98.	*	.6 *	.0	.0	.0	.0	.0	.0	.3	.0
7. WS mdbl	*	84.	*	.8 *	.0	.0	.0	.0	.0	.0	.6	.0
8. EN mdbl	*	263.	*	.6 *	.0	.0	.0	.0	.0	.0	.0	.1
9. SE mdbl	*	349.	*	.3 *	.0	.0	.0	.0	.2	.0	.0	.0
10. NW mdbl	*	177.	*	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	9.	*	.4 *	.0	.0	.0	.0	.3	.0	.0	.0
12. NE mdbl	*	185.	*	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	276.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	96.	*	.5 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	*	.6 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	*	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	354.	*	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	177.	*	.1 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	6.	*	.3 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	185.	*	.1 *	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-07 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash
RUN: 2030A2-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S ZO= 100. CM ALT= 366. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. SR-30 NB NBA	*	0	-150	0	0	* AG	756	1.7	.0	10.0
B. SR-30 NB NBD	*	0	0	0	150	* AG	434	1.5	.0	10.0
C. SR-30 NB NBL	*	2	-150	0	0	* AG	625	1.7	.0	10.0
D. SR-30 NB SBA	*	0	150	0	0	* AG	0	1.0	.0	10.0
E. SR-30 NB SBD	*	0	0	0	-150	* AG	0	1.0	.0	10.0
F. SR-30 NB SBL	*	-2	150	0	0	* AG	0	1.0	.0	10.0
G. 5th St. EBA	*	-150	0	0	0	* AG	1332	1.5	.0	10.0
H. 5th St. EBD	*	0	0	150	0	* AG	2088	1.3	.0	10.0
I. 5th St. EBL	*	-150	-2	0	0	* AG	230	1.7	.0	10.0
J. 5th St. WBA	*	150	0	0	0	* AG	1121	1.4	.0	10.0
K. 5th St. WBD	*	0	0	-150	0	* AG	1542	1.1	.0	10.0
L. 5th St. WBL	*	150	2	0	0	* AG	0	1.0	.0	10.0
M. SR-30 N NBAX	*	0	-750	0	-150	* AG	1381	1.0	.0	10.0
N. SR-30 N NBDX	*	0	150	0	750	* AG	434	1.0	.0	10.0
O. SR-30 N SBAX	*	0	750	0	150	* AG	0	1.0	.0	10.0
P. SR-30 N SBDX	*	0	-150	0	-750	* AG	0	1.0	.0	10.0
Q. 5th St. EBAX	*	-750	0	-150	0	* AG	1562	1.0	.0	10.0
R. 5th St. EBDX	*	150	0	750	0	* AG	2088	1.0	.0	10.0
S. 5th St. WBAX	*	750	0	150	0	* AG	1121	1.0	.0	10.0
T. 5th St. WBDX	*	-150	0	-750	0	* AG	1542	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-08 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*			
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl k	*	150	-7	1.8
6. WN mdbl k	*	-150	7	1.8
7. WS mdbl k	*	-150	-7	1.8
8. EN mdbl k	*	150	7	1.8
9. SE mdbl k	*	7	-150	1.8
10. NW mdbl k	*	-7	150	1.8
11. SW mdbl k	*	-7	-150	1.8
12. NE mdbl k	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A2-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* * BRG * (DEG)	* PRED * CONC * (PPM)	* * *	A	B	C	D	E	F	G	H
1. SE	* 277.	* .8	*	.0	.0	.0	.0	.0	.0	.3	.0
2. NW	* 97.	* .7	*	.0	.0	.0	.0	.0	.0	.0	.3
3. SW	* 83.	* .8	*	.0	.0	.0	.0	.0	.0	.0	.3
4. NE	* 263.	* .7	*	.0	.0	.0	.0	.0	.0	.3	.0
5. ES mdbl	* 277.	* .7	*	.0	.0	.0	.0	.0	.0	.0	.3
6. WN mdbl	* 97.	* .7	*	.0	.0	.0	.0	.0	.0	.3	.0
7. WS mdbl	* 83.	* .7	*	.0	.0	.0	.0	.0	.0	.3	.0
8. EN mdbl	* 263.	* .7	*	.0	.0	.0	.0	.0	.0	.0	.3
9. SE mdbl	* 352.	* .5	*	.2	.0	.2	.0	.0	.0	.0	.0
10. NW mdbl	* 177.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	* 9.	* .4	*	.2	.0	.1	.0	.0	.0	.0	.0
12. NE mdbl	* 183.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	* 276.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 96.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 84.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 263.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 354.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 175.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 6.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 185.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Upper Santa Ana River Wash
RUN: 2030A2-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A2-09 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Boulder	NBA *	0	-150	0	0	* AG	1123	1.5	.0	13.5
B. Boulder	NBD *	0	0	0	150	* AG	1177	1.1	.0	10.0
C. Boulder	NBL *	2	-150	0	0	* AG	636	1.7	.0	10.0
D. Boulder	SBA *	0	150	0	0	* AG	837	1.5	.0	13.5
E. Boulder	SBD *	0	0	0	-150	* AG	1249	1.1	.0	10.0
F. Boulder	SBL *	-2	150	0	0	* AG	321	1.7	.0	10.0
G. 5th St.	EBA *	-150	0	0	0	* AG	1473	1.7	.0	13.5
H. 5th St.	EBD *	0	0	150	0	* AG	1386	1.1	.0	10.0
I. 5th St.	EBL *	-150	-2	0	0	* AG	11	1.7	.0	10.0
J. 5th St.	WBA *	150	0	0	0	* AG	262	1.4	.0	13.5
K. 5th St.	WBD *	0	0	-150	0	* AG	855	1.1	.0	10.0
L. 5th St.	WBL *	150	2	0	0	* AG	4	1.7	.0	10.0
M. Boulder	NBAX *	0	-750	0	-150	* AG	1759	1.0	.0	13.5
N. Boulder	NBDX *	0	150	0	750	* AG	1177	1.0	.0	10.0
O. Boulder	SBAX *	0	750	0	150	* AG	1158	1.0	.0	13.5
P. Boulder	SBDX *	0	-150	0	-750	* AG	1249	1.0	.0	10.0
Q. 5th St.	EBAX *	-750	0	-150	0	* AG	1484	1.0	.0	13.5
R. 5th St.	EBDX *	150	0	750	0	* AG	1386	1.0	.0	10.0
S. 5th St.	WBAX *	750	0	150	0	* AG	266	1.0	.0	13.5
T. 5th St.	WBDX *	-150	0	-750	0	* AG	855	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-09 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
-----*				
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdblk	*	150	-7	1.8
6. WN mdblk	*	-150	7	1.8
7. WS mdblk	*	-150	-7	1.8
8. EN mdblk	*	150	7	1.8
9. SE mdblk	*	7	-150	1.8
10. NW mdblk	*	-7	150	1.8
11. SW mdblk	*	-7	-150	1.8
12. NE mdblk	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

JUNE 1989 VERSION

JOB: Upper Santa Ana River Wash

POLLUTANT: Carbon Monoxide

[illegible]

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 4

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-09 (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	Q	R	S	T
1. SE	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.1
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.1
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

JOB: Upper Santa Ana River Wash

RUN: 2030A2-10 (WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 366. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)				*		EF	H	W
DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. Orange S NBA	*	0	-150	0	0	* AG	2186	1.7	.0	10.0
B. Orange S NBD	*	0	0	0	150	* AG	2200	1.3	.0	10.0
C. Orange S NBL	*	2	-150	0	0	* AG	1	1.7	.0	10.0
D. Orange S SBA	*	0	150	0	0	* AG	1474	1.6	.0	10.0
E. Orange S SBD	*	0	0	0	-150	* AG	1484	1.1	.0	10.0
F. Orange S SBL	*	-2	150	0	0	* AG	17	1.7	.0	10.0
G. Cemex Ac EBA	*	-150	0	0	0	* AG	3	1.6	.0	10.0
H. Cemex Ac EBD	*	0	0	150	0	* AG	29	1.2	.0	10.0
I. Cemex Ac EBL	*	-150	-2	0	0	* AG	0	1.0	.0	10.0
J. Cemex Ac WBA	*	150	0	0	0	* AG	24	1.6	.0	10.0
K. Cemex Ac WBD	*	0	0	-150	0	* AG	1	1.2	.0	10.0
L. Cemex Ac WBL	*	150	2	0	0	* AG	9	1.7	.0	10.0
M. Orange NBAX	*	0	-750	0	-150	* AG	2187	1.0	.0	10.0
N. Orange NBDX	*	0	150	0	750	* AG	2200	1.0	.0	10.0
O. Orange SBAX	*	0	750	0	150	* AG	1491	1.0	.0	10.0
P. Orange SBDX	*	0	-150	0	-750	* AG	1484	1.0	.0	10.0
Q. Cemex A EBAX	*	-750	0	-150	0	* AG	3	1.0	.0	10.0
R. Cemex A EBDX	*	150	0	750	0	* AG	29	1.0	.0	10.0
S. Cemex A WBAX	*	750	0	150	0	* AG	33	1.0	.0	10.0
T. Cemex A WBDX	*	-150	0	-750	0	* AG	1	1.0	.0	10.0

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

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-10 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
	*	-----*		
1. SE	*	7	-7	1.8
2. NW	*	-7	7	1.8
3. SW	*	-7	-7	1.8
4. NE	*	7	7	1.8
5. ES mdbl	*	150	-7	1.8
6. WN mdbl	*	-150	7	1.8
7. WS mdbl	*	-150	-7	1.8
8. EN mdbl	*	150	7	1.8
9. SE mdbl	*	7	-150	1.8
10. NW mdbl	*	-7	150	1.8
11. SW mdbl	*	-7	-150	1.8
12. NE mdbl	*	7	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	7	-600	1.8
18. NW blk	*	-7	600	1.8
19. SW blk	*	-7	-600	1.8
20. NE blk	*	7	600	1.8

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

JOB: Upper Santa Ana River Wash
RUN: 2030A2-10 (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. SE	*	188.	* .8	*	.5	.0	.0	.0	.2	.0	.0	.0
2. NW	*	8.	* .8	*	.0	.4	.0	.3	.0	.0	.0	.0
3. SW	*	172.	* .8	*	.5	.0	.0	.0	.2	.0	.0	.0
4. NE	*	352.	* .8	*	.0	.4	.0	.3	.0	.0	.0	.0
5. ES mdbl	*	278.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	92.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	88.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	262.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	353.	* .8	*	.5	.0	.0	.0	.2	.0	.0	.0
10. NW mdbl	*	173.	* .8	*	.0	.4	.0	.3	.0	.0	.0	.0
11. SW mdbl	*	8.	* .8	*	.5	.0	.0	.0	.2	.0	.0	.0
12. NE mdbl	*	187.	* .8	*	.0	.4	.0	.3	.0	.0	.0	.0
13. ES blk	*	274.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	91.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	89.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	267.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	353.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	173.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	7.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	187.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 4

JOB: Upper Santa Ana River Wash
 RUN: 2030A2-10 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

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

		CONC/LINK (PPM)											
RECEPTOR		I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdbl	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0