APPENDIX C

AIR QUALITY DATA

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	91. (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 DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	5	-150	5	0	AG	170	7.2	.0	10.0
B. East 5th NBD	5	0	5	150	AG	266	5.4	.0	10.0
C. East 5th NBL	5	-150	0	0	AG	271	10.5	.0	10.0
D. East 5th SBA	-4	150	-4	0	AG	159	7.2	.0	10.0
E. East 5th SBD	-4	0	-4	-150	AG	336	5.5	.0	10.0
F. East 5th SBL	-2	150	0	0	AG	0	5.2	.0	10.0
G. I-780 WB EBA	-150	0	0	0	AG	0	4.5	.0	10.0
H. I-780 WB EBD	0	0	150	0	AG	0	4.5	.0	10.0
I. I-780 WB EBL	-150	-2	0	0	AG	0	4.5	.0	10.0
J. I-780 WB WBA	150	7	0	7	AG	99	8.7	.0	10.0
K. I-780 WB WBD	0	7	-150	7	AG	342	6.0	.0	10.0
L. I-780 WB WBL	150	5	0	0	AG	245	10.5	.0	10.0
M. East 5t NBAX	5	-750	5	-150	AG	441	5.2	.0	10.0
N. East 5t NBDX	5	150	5	750	AG	266	5.2	.0	10.0
O. East 5t SBAX	-4	750	-4	150	AG	159	5.2	.0	10.0
P. East 5t SBDX	-4	-150	-4	-750	AG	336	5.2	.0	10.0
Q. I-780 W EBAX	-750	0	-150	0	AG	0	4.5	.0	10.0
R. I-780 W EBDX	150	0	750	0	AG	0	4.5	.0	10.0
S. I-780 W WBAX	750	7	150	7	AG	344	4.5	.0	10.0
T. I-780 W WBDX	-150	7	-750	7	AG	342	4.5	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-01 (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	187.	.7	.2	.0	.3	.0	.1	.0	.0	.0
2. NW	172.	.9	.0	.0	.3	.0	.2	.0	.0	.0
3. SW	82.	.8	.0	.0	.2	.0	.1	.0	.0	.0
4. NE	187.	.9	.2	.0	.3	.0	.1	.0	.0	.0
5. ES mdblk	277.	.5	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	96.	.5	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	86.	.3	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	260.	.6	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	351.	.9	.2	.0	.4	.0	.1	.0	.0	.0
10. NW mdblk	175.	.6	.0	.0	.0	.2	.0	.0	.0	.0
11. SW mdblk	9.	.7	.0	.0	.2	.0	.3	.0	.0	.0
12. NE mdblk	185.	.6	.0	.2	.0	.0	.0	.0	.0	.0
13. ES blk	275.	.2	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	96.	.4	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	85.	.2	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	265.	.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	175.	.4	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	.6	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	185.	.4	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.2	.0	.3	.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	.2	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
17. SE blk	.0	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.2	.0	.0	.3	.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: Benicia Lower Arsenal Specific Plan
RUN: Existing-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	*	4	-150	4	0	* AG	522	7.9	.0	10.0
B. East 5th NBD	*	4	0	4	150	* AG	452	5.5	.0	10.0
C. East 5th NBL	*	2	-150	0	0	* AG	0	5.2	.0	10.0
D. East 5th SBA	*	-5	150	-5	0	* AG	264	7.4	.0	10.0
E. East 5th SBD	*	-5	0	-5	-150	* AG	460	5.5	.0	10.0
F. East 5th SBL	*	-5	150	0	0	* AG	80	9.7	.0	10.0
G. I-780 EB EBA	*	-150	-5	0	-5	* AG	196	8.7	.0	10.0
H. I-780 EB EBD	*	0	-5	150	-5	* AG	220	5.4	.0	10.0
I. I-780 EB EBL	*	-150	-5	0	0	* AG	70	9.6	.0	10.0
J. I-780 EB WBA	*	150	0	0	0	* AG	0	4.5	.0	10.0
K. I-780 EB WBD	*	0	0	-150	0	* AG	0	4.5	.0	10.0
L. I-780 EB WBL	*	150	2	0	0	* AG	0	4.5	.0	10.0
M. East 5t NBAX	*	4	-750	4	-150	* AG	522	5.2	.0	10.0
N. East 5t NBDX	*	4	150	4	750	* AG	452	5.2	.0	10.0
O. East 5t SBAX	*	-5	750	-5	150	* AG	344	5.2	.0	10.0
P. East 5t SBDX	*	-5	-150	-5	-750	* AG	460	5.2	.0	10.0
Q. I-780 E EBAX	*	-750	-5	-150	-5	* AG	266	4.5	.0	10.0
R. I-780 E EBDX	*	150	-5	750	-5	* AG	220	4.5	.0	10.0
S. I-780 E WBAX	*	750	0	150	0	* AG	0	4.5	.0	10.0
T. I-780 E WBDX	*	-150	0	-750	0	* AG	0	4.5	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	10	-12	1.8
2. NW	*	-12	7	1.8
3. SW	*	-12	-12	1.8
4. NE	*	10	7	1.8
5. ES mdblk	*	150	-12	1.8
6. WN mdblk	*	-150	7	1.8
7. WS mdblk	*	-150	-12	1.8
8. EN mdblk	*	150	7	1.8
9. SE mdblk	*	10	-150	1.8
10. NW mdblk	*	-12	150	1.8
11. SW mdblk	*	-12	-150	1.8
12. NE mdblk	*	10	150	1.8
13. ES blk	*	600	-12	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-12	1.8
16. EN blk	*	600	7	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: Benicia Lower Arsenal Specific Plan
RUN: Existing-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	*	187.	* .9	*	.6	.0	.0	.0	.1	.0	.0	.0
2. NW	*	173.	* .9	*	.2	.0	.0	.0	.4	.0	.0	.0
3. SW	*	7.	* .9	*	.0	.1	.0	.3	.0	.0	.1	.0
4. NE	*	187.	* 1.0	*	.6	.0	.0	.0	.1	.0	.0	.0
5. ES mdblk	*	274.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.2
6. WN mdblk	*	98.	* .4	*	.0	.0	.0	.0	.0	.0	.2	.0
7. WS mdblk	*	82.	* .5	*	.0	.0	.0	.0	.0	.0	.3	.0
8. EN mdblk	*	264.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	353.	1.0	.6	.0	.0	.0	.1	.0	.0	.0
10. NW mdblk	174.	.8	.1	.1	.0	.3	.0	.1	.0	.0
11. SW mdblk	7.	.8	.2	.0	.0	.0	.4	.0	.0	.0
12. NE mdblk	186.	.8	.0	.4	.0	.1	.0	.0	.0	.0
13. ES blk	275.	.3	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	96.	.2	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	85.	.3	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	264.	.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.8	.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.	.7	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.7	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-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	.1	.0	.0	.0	.0
2. NW	.0	.0	.0	.0	.1	.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 mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.1	.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	.2	.0	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
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	.1	.0	.0
17. SE blk	.0	.0	.0	.0	.5	.0	.0	.2	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	*	7	-150	7	0	* AG	201	7.8	.0	10.0
B. East 5th NBD	*	7	0	7	150	* AG	567	5.6	.0	10.0
C. East 5th NBL	*	5	-150	0	0	* AG	38	9.7	.0	10.0
D. East 5th SBA	*	-7	150	-7	0	* AG	348	7.8	.0	10.0
E. East 5th SBD	*	-7	0	-7	-150	* AG	283	5.6	.0	10.0
F. East 5th SBL	*	-5	150	0	0	* AG	122	9.7	.0	10.0
G. Military EBA	*	-150	-2	0	-2	* AG	119	7.8	.0	10.0
H. Military EBD	*	0	-2	150	-2	* AG	217	5.6	.0	10.0
I. Military EBL	*	-150	-2	0	0	* AG	130	9.7	.0	10.0
J. Military WBA	*	150	5	0	5	* AG	369	7.8	.0	11.8
K. Military WBD	*	0	5	-150	5	* AG	284	5.6	.0	10.0
L. Military WBL	*	150	2	0	0	* AG	24	9.7	.0	10.0
M. East 5t NBAX	*	7	-750	7	-150	* AG	239	5.2	.0	10.0
N. East 5t NBDX	*	7	150	7	750	* AG	567	5.2	.0	10.0
O. East 5t SBAX	*	-7	750	-7	150	* AG	470	5.2	.0	10.0
P. East 5t SBDX	*	-7	-150	-7	-750	* AG	283	5.2	.0	10.0
Q. Militar EBAX	*	-750	-2	-150	-2	* AG	249	5.2	.0	10.0
R. Militar EBDX	*	150	-2	750	-2	* AG	217	5.2	.0	10.0
S. Militar WBAX	*	750	5	150	5	* AG	393	5.2	.0	11.8
T. Militar WBDX	*	-150	5	-750	5	* AG	284	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-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	*	352.	* 1.1	*	.0	.4	.0	.1	.0	.0	.0	.0
2. NW	*	96.	* 1.0	*	.0	.1	.0	.2	.0	.0	.0	.0
3. SW	*	7.	* 1.0	*	.0	.1	.0	.4	.0	.1	.0	.0
4. NE	*	262.	* .9	*	.0	.2	.0	.1	.0	.0	.0	.0
5. ES mdblk	*	277.	* .7	*	.0	.0	.0	.0	.0	.0	.0	.2
6. WN mdblk	*	96.	* .7	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	83.	* .8	*	.0	.0	.0	.0	.0	.0	.2	.0
8. EN mdblk	*	264.	* .8	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	*	354.	*	.7	*	.2	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	171.	*	.9	*	.0	.1	.0	.4	.0	.2	.0	.0
11. SW mdblk	*	6.	*	.7	*	.0	.0	.0	.0	.2	.0	.0	.0
12. NE mdblk	*	188.	*	.9	*	.0	.5	.0	.1	.0	.0	.0	.0
13. ES blk	*	276.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	95.	*	.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.	*	.6	*	.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.	*	.7	*	.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.	*	.8	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-03 (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	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
2. NW	*	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
4. NE	*	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.4	.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	.2	.2	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0
17. SE blk	*	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.0	.0	.0	.3	.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: Benicia Lower Arsenal Specific Plan
RUN: Existing-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	*	2	-150	2	0	* AG	40	7.8	.0	10.0
B. East 5th NBD	*	2	0	2	150	* AG	115	5.6	.0	10.0
C. East 5th NBL	*	2	-150	0	0	* AG	7	9.7	.0	10.0
D. East 5th SBA	*	-2	150	-2	0	* AG	152	7.8	.0	10.0
E. East 5th SBD	*	-2	0	-2	-150	* AG	85	5.6	.0	10.0
F. East 5th SBL	*	-2	150	0	0	* AG	11	9.7	.0	10.0
G. East H S EBA	*	-150	-2	0	-2	* AG	16	7.8	.0	10.0
H. East H S EBD	*	0	-2	150	-2	* AG	22	5.6	.0	10.0
I. East H S EBL	*	-150	-2	0	0	* AG	73	9.7	.0	10.0
J. East H S WBA	*	150	2	0	2	* AG	8	7.8	.0	10.0
K. East H S WBD	*	0	2	-150	2	* AG	86	5.6	.0	10.0
L. East H S WBL	*	150	2	0	0	* AG	1	9.7	.0	10.0
M. East 5t NBAX	*	2	-750	2	-150	* AG	47	5.2	.0	10.0
N. East 5t NBDX	*	2	150	2	750	* AG	115	5.2	.0	10.0
O. East 5t SBAX	*	-2	750	-2	150	* AG	163	5.2	.0	10.0
P. East 5t SBDX	*	-2	-150	-2	-750	* AG	85	5.2	.0	10.0
Q. East H EBAX	*	-750	-2	-150	-2	* AG	89	5.2	.0	10.0
R. East H EBDX	*	150	-2	750	-2	* AG	22	5.2	.0	10.0
S. East H WBAX	*	750	2	150	2	* AG	9	5.2	.0	10.0
T. East H WBDX	*	-150	2	-750	2	* AG	86	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-8	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-8	1.8
4. NE	*	8	8	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	8	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	8	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-8	150	1.8
11. SW mdblk	*	-8	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-8	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: Benicia Lower Arsenal Specific Plan
RUN: Existing-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	*	354.	* .3	*	.0	.1	.0	.1	.0	.0	.0	.0
2. NW	*	6.	* .4	*	.0	.0	.0	.2	.0	.0	.0	.0
3. SW	*	6.	* .4	*	.0	.0	.0	.2	.0	.0	.0	.0
4. NE	*	264.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	273.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	98.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	81.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	268.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	* 355. *	.3 *	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	* 174. *	.4 *	.0	.0	.0	.2	.0	.0	.0	.0
11. SW mdblk	* 3. *	.3 *	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	* 188. *	.3 *	.0	.1	.0	.1	.0	.0	.0	.0
13. ES blk	* 273. *	.0 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 95. *	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 85. *	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 268. *	.0 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 355. *	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 175. *	.3 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 3. *	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 185. *	.3 *	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
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	.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	.0	.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	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.1	.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	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.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	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.0	.2	.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	.1	.1	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 2nd NBA	*	7	-150	7	0	* AG	153	7.2	.0	10.0
B. East 2nd NBD	*	7	0	7	150	* AG	554	5.4	.0	10.0
C. East 2nd NBL	*	5	-150	0	0	* AG	103	9.7	.0	10.0
D. East 2nd SBA	*	-5	150	-5	0	* AG	508	7.4	.0	11.8
E. East 2nd SBD	*	-5	0	-5	-150	* AG	204	5.4	.0	10.0
F. East 2nd SBL	*	-2	150	0	0	* AG	80	9.7	.0	10.0
G. Military EBA	*	-150	-5	0	-5	* AG	267	9.0	.0	11.8
H. Military EBD	*	0	-5	150	-5	* AG	265	5.9	.0	10.0
I. Military EBL	*	-150	-2	0	0	* AG	334	10.6	.0	10.0
J. Military WBA	*	150	7	0	7	* AG	290	9.3	.0	10.0
K. Military WBD	*	0	7	-150	7	* AG	723	10.5	.0	10.0
L. Military WBL	*	150	5	0	0	* AG	11	9.7	.0	10.0
M. East 2n NBAX	*	7	-750	7	-150	* AG	256	5.2	.0	10.0
N. East 2n NBDX	*	7	150	7	750	* AG	554	5.2	.0	10.0
O. East 2n SBAX	*	-5	750	-5	150	* AG	588	5.2	.0	11.8
P. East 2n SBDX	*	-5	-150	-5	-750	* AG	204	5.2	.0	10.0
Q. Militar EBAX	*	-750	-5	-150	-5	* AG	601	5.2	.0	11.8
R. Militar EBDX	*	150	-5	750	-5	* AG	265	5.2	.0	10.0
S. Militar WBAX	*	750	7	150	7	* AG	301	5.2	.0	10.0
T. Militar WBDX	*	-150	7	-750	7	* AG	723	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-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	*	279.	* 1.4	*	.0	.0	.0	.0	.0	.0	.3	.0
2. NW	*	261.	* 1.6	*	.0	.0	.0	.0	.0	.0	.1	.0
3. SW	*	7.	* 1.5	*	.0	.1	.0	.5	.0	.0	.2	.0
4. NE	*	262.	* 2.0	*	.0	.2	.0	.2	.0	.0	.1	.0
5. ES mdblk	*	276.	* .9	*	.0	.0	.0	.0	.0	.0	.0	.2
6. WN mdblk	*	99.	* 1.7	*	.0	.0	.0	.0	.0	.0	.1	.0
7. WS mdblk	*	78.	* 1.3	*	.0	.0	.0	.0	.0	.0	.4	.0
8. EN mdblk	*	265.	* 1.0	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	*	353.	*	.8	*	.2	.0	.1	.1	.0	.0	.0	.0
10. NW mdblk	*	172.	*	1.0	*	.0	.1	.0	.5	.0	.0	.0	.0
11. SW mdblk	*	4.	*	.7	*	.0	.0	.0	.0	.2	.0	.0	.0
12. NE mdblk	*	191.	*	1.0	*	.0	.4	.0	.2	.0	.0	.0	.0
13. ES blk	*	276.	*	.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	*	83.	*	.9	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	265.	*	.6	*	.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.	*	.8	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	5.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	187.	*	.9	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-05 (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	*	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1
2. NW	*	.2	.0	1.1	.0	.0	.0	.0	.0	.1	.0	.0	.0
3. SW	*	.2	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0
4. NE	*	.3	.0	.9	.0	.0	.0	.0	.0	.1	.0	.0	.0
5. ES mdblk	*	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.1	.4	.2	.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	.3	.1	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.6
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.3
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0
17. SE blk	*	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.1	.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: Benicia Lower Arsenal Specific Plan
RUN: Existing-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Bayshore NBA	*	2	-150	2	0	* AG	98	7.8	.0	10.0
B. Bayshore NBD	*	2	0	2	150	* AG	166	5.6	.0	10.0
C. Bayshore NBL	*	2	-150	0	0	* AG	3	9.7	.0	10.0
D. Bayshore SBA	*	-7	150	-7	0	* AG	39	7.8	.0	10.0
E. Bayshore SBD	*	-7	0	-7	-150	* AG	57	5.6	.0	10.0
F. Bayshore SBL	*	-5	150	0	0	* AG	386	10.6	.0	10.0
G. Park Roa EBA	*	-150	-2	0	-2	* AG	27	7.8	.0	10.0
H. Park Roa EBD	*	0	-2	150	-2	* AG	468	5.6	.0	10.0
I. Park Roa EBL	*	-150	-2	0	0	* AG	15	9.7	.0	10.0
J. Park Roa WBA	*	150	5	0	5	* AG	122	7.8	.0	11.8
K. Park Roa WBD	*	0	5	-150	5	* AG	11	5.6	.0	10.0
L. Park Roa WBL	*	150	2	0	0	* AG	12	9.7	.0	10.0
M. Bayshor NBAX	*	2	-750	2	-150	* AG	101	5.2	.0	10.0
N. Bayshor NBDX	*	2	150	2	750	* AG	166	5.2	.0	10.0
O. Bayshor SBAX	*	-7	750	-7	150	* AG	425	5.2	.0	10.0
P. Bayshor SBDX	*	-7	-150	-7	-750	* AG	57	5.2	.0	10.0
Q. Park Ro EBAX	*	-750	-2	-150	-2	* AG	42	5.2	.0	10.0
R. Park Ro EBDX	*	150	-2	750	-2	* AG	468	5.2	.0	10.0
S. Park Ro WBAX	*	750	5	150	5	* AG	134	5.2	.0	11.8
T. Park Ro WBDX	*	-150	5	-750	5	* AG	11	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-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	*	351.	* 1.0	*	.0	.1	.0	.0	.0	.5	.0	.2
2. NW	*	96.	* .7	*	.0	.0	.0	.0	.0	.2	.0	.2
3. SW	*	84.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.3
4. NE	*	350.	* .7	*	.0	.2	.0	.0	.0	.4	.0	.0
5. ES mdblk	*	280.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.4
6. WN mdblk	*	92.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	87.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	260.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.2

9. SE mdblk	*	357.	*	.4	*	.1	.0	.0	.0	.0	.1	.0	.0
10. NW mdblk	*	169.	*	.7	*	.0	.0	.0	.0	.0	.5	.0	.0
11. SW mdblk	*	5.	*	.4	*	.0	.0	.0	.0	.0	.1	.0	.0
12. NE mdblk	*	188.	*	.6	*	.0	.2	.0	.0	.0	.3	.0	.0
13. ES blk	*	276.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	91.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	87.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	264.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	357.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	174.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	5.	*	.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: Benicia Lower Arsenal Specific Plan
RUN: Existing-06 (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	.1	.0	.0	.0	.0	.0	.0	.0	.1	.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 mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.2	.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	.4	.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	.2	.1	.0
17. SE blk	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.0	.4	.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	.2	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	ZO=	100. CM	ALT=	91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Grant St NBA	*	2	-150	2	0	* AG	1	9.0	.0	10.0
B. Grant St NBD	*	2	0	2	150	* AG	43	5.9	.0	10.0
C. Grant St NBL	*	2	-150	0	0	* AG	121	9.7	.0	10.0
D. Grant St SBA	*	0	150	0	0	* AG	0	5.2	.0	10.0
E. Grant St SBD	*	0	0	0	-150	* AG	7	5.9	.0	10.0
F. Grant St SBL	*	-2	150	0	0	* AG	0	5.2	.0	10.0
G. Military EBA	*	-150	-2	0	-2	* AG	66	7.2	.0	10.0
H. Military EBD	*	0	-2	150	-2	* AG	61	5.4	.0	10.0
I. Military EBL	*	-150	-2	0	0	* AG	43	9.7	.0	10.0
J. Military WBA	*	150	2	0	2	* AG	138	7.2	.0	10.0
K. Military WBD	*	0	2	-150	2	* AG	259	5.4	.0	10.0
L. Military WBL	*	150	2	0	0	* AG	1	9.7	.0	10.0
M. Grant S NBAX	*	2	-750	2	-150	* AG	122	5.2	.0	10.0
N. Grant S NBDX	*	2	150	2	750	* AG	43	5.2	.0	10.0
O. Grant S SBAX	*	0	750	0	150	* AG	0	5.2	.0	10.0
P. Grant S SBDX	*	0	-150	0	-750	* AG	7	5.2	.0	10.0
Q. Militar EBAX	*	-750	-2	-150	-2	* AG	109	5.2	.0	10.0
R. Militar EBDX	*	150	-2	750	-2	* AG	61	5.2	.0	10.0
S. Militar WBAX	*	750	2	150	2	* AG	139	5.2	.0	10.0
T. Militar WBDX	*	-150	2	-750	2	* AG	259	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-8	1.8
2. NW	*	-7	8	1.8
3. SW	*	-7	-8	1.8
4. NE	*	8	8	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	8	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	8	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-7	150	1.8
11. SW mdblk	*	-7	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-8	1.8
16. EN blk	*	600	8	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: Benicia Lower Arsenal Specific Plan
RUN: Existing-07 (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.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	264.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	276.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	264.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	274.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	97.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	84.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	265.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	* 351. *	.3 *	.0	.0	.2	.0	.0	.0	.0	.0
10. NW mdblk	* 178. *	.1 *	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	* 7. *	.2 *	.0	.0	.2	.0	.0	.0	.0	.0
12. NE mdblk	* 183. *	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	* 275. *	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 95. *	.4 *	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 85. *	.3 *	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 265. *	.3 *	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 355. *	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 177. *	.0 *	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 5. *	.2 *	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 183. *	.1 *	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
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	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.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	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.2	.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	.1	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
17. SE blk	*	.0	.0	.0	.0	.1	.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	.1	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Park Roa NBA	*	2	-150	2	0	* AG	6	7.8	.0	10.0
B. Park Roa NBD	*	2	0	2	150	* AG	23	5.6	.0	10.0
C. Park Roa NBL	*	2	-150	0	0	* AG	0	5.2	.0	10.0
D. Park Roa SBA	*	-2	150	-2	0	* AG	57	7.8	.0	10.0
E. Park Roa SBD	*	-2	0	-2	-150	* AG	4	5.6	.0	10.0
F. Park Roa SBL	*	-2	150	0	0	* AG	1	9.7	.0	10.0
G. Adams St EBA	*	-150	-2	0	-2	* AG	35	7.8	.0	10.0
H. Adams St EBD	*	0	-2	150	-2	* AG	37	5.6	.0	10.0
I. Adams St EBL	*	-150	-2	0	0	* AG	17	9.7	.0	10.0
J. Adams St WBA	*	150	2	0	2	* AG	73	7.8	.0	10.0
K. Adams St WBD	*	0	2	-150	2	* AG	127	5.6	.0	10.0
L. Adams St WBL	*	150	2	0	0	* AG	2	9.7	.0	10.0
M. Park Ro NBAX	*	2	-750	2	-150	* AG	6	5.2	.0	10.0
N. Park Ro NBDX	*	2	150	2	750	* AG	23	5.2	.0	10.0
O. Park Ro SBAX	*	-2	750	-2	150	* AG	58	5.2	.0	10.0
P. Park Ro SBDX	*	-2	-150	-2	-750	* AG	4	5.2	.0	10.0
Q. Adams S EBAX	*	-750	-2	-150	-2	* AG	52	5.2	.0	10.0
R. Adams S EBDX	*	150	-2	750	-2	* AG	37	5.2	.0	10.0
S. Adams S WBAX	*	750	2	150	2	* AG	75	5.2	.0	10.0
T. Adams S WBDX	*	-150	2	-750	2	* AG	127	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-8	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-8	1.8
4. NE	*	8	8	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	8	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	8	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-8	150	1.8
11. SW mdblk	*	-8	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-8	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: Benicia Lower Arsenal Specific Plan
RUN: Existing-08 (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.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	264.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	276.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	264.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	275.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	96.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	84.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	266.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	* 357. *	.0 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	* 172. *	.1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	* 2. *	.0 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	* 189. *	.1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	* 275. *	.2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 95. *	.2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 85. *	.2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 267. *	.2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 357. *	.0 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 175. *	.1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 2. *	.0 *	.0	.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: Benicia Lower Arsenal Specific Plan
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	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.1	.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	.1	.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	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.0	.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	.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	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	91. (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 DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Park Roa NBA	2	-150	2	0	AG	0	5.2	.0	10.0
B. Park Roa NBD	2	0	2	150	AG	17	5.6	.0	10.0
C. Park Roa NBL	2	-150	0	0	AG	1	9.7	.0	10.0
D. Park Roa SBA	-2	150	-2	0	AG	12	7.8	.0	10.0
E. Park Roa SBD	-2	0	-2	-150	AG	0	5.2	.0	10.0
F. Park Roa SBL	-2	150	0	0	AG	2	9.7	.0	10.0
G. Polk Str EBA	-150	-2	0	-2	AG	61	7.8	.0	10.0
H. Polk Str EBD	0	-2	150	-2	AG	63	5.6	.0	10.0
I. Polk Str EBL	-150	-2	0	0	AG	7	9.7	.0	10.0
J. Polk Str WBA	150	2	0	2	AG	119	7.8	.0	10.0
K. Polk Str WBD	0	2	-150	2	AG	122	5.6	.0	10.0
L. Polk Str WBL	150	2	0	0	AG	0	5.2	.0	10.0
M. Park Ro NBAX	2	-750	2	-150	AG	1	5.2	.0	10.0
N. Park Ro NBDX	2	150	2	750	AG	17	5.2	.0	10.0
O. Park Ro SBAX	-2	750	-2	150	AG	14	5.2	.0	10.0
P. Park Ro SBDX	-2	-150	-2	-750	AG	0	5.2	.0	10.0
Q. Polk St EBAX	-750	-2	-150	-2	AG	68	5.2	.0	10.0
R. Polk St EBDX	150	-2	750	-2	AG	63	5.2	.0	10.0
S. Polk St WBAX	750	2	150	2	AG	119	5.2	.0	10.0
T. Polk St WBDX	-150	2	-750	2	AG	122	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	8	-8	1.8
2. NW	-8	8	1.8
3. SW	-8	-8	1.8
4. NE	8	8	1.8
5. ES mdblk	150	-8	1.8
6. WN mdblk	-150	8	1.8
7. WS mdblk	-150	-8	1.8
8. EN mdblk	150	8	1.8
9. SE mdblk	8	-150	1.8
10. NW mdblk	-8	150	1.8
11. SW mdblk	-8	-150	1.8
12. NE mdblk	8	150	1.8
13. ES blk	600	-8	1.8
14. WN blk	-600	8	1.8
15. WS blk	-600	-8	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: Benicia Lower Arsenal Specific Plan
RUN: Existing-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.	.2	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	96.	.3	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	276.	.2	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	264.	.3	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	276.	.2	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	95.	.3	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	84.	.3	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	265.	.3	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	358.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	172.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	2.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	188.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	275.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	95.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	85.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	265.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	359.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	176.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	1.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	184.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-09 (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	.2	.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	.1	.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	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.1	.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	.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	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Bayshore NBA	4	-150	4	0	AG	8	7.2	.0	10.0
B. Bayshore NBD	4	0	4	150	AG	11	5.4	.0	10.0
C. Bayshore NBL	2	-150	0	0	AG	8	9.7	.0	10.0
D. Bayshore SBA	-4	150	-4	0	AG	15	7.2	.0	10.0
E. Bayshore SBD	-4	0	-4	-150	AG	6	5.4	.0	10.0
F. Bayshore SBL	-2	150	0	0	AG	0	5.2	.0	10.0
G. Adams St EBA	-150	-5	0	-5	AG	0	5.2	.0	10.0
H. Adams St EBD	0	-5	150	-5	AG	0	5.2	.0	10.0
I. Adams St EBL	-150	-5	0	0	AG	3	9.7	.0	10.0
J. Adams St WBA	150	0	0	0	AG	0	5.2	.0	10.0
K. Adams St WBD	0	0	-150	0	AG	17	5.9	.0	10.0
L. Adams St WBL	150	2	0	0	AG	0	5.2	.0	10.0
M. Bayshor NBAX	4	-750	4	-150	AG	16	5.2	.0	10.0
N. Bayshor NBDX	4	150	4	750	AG	11	5.2	.0	10.0
O. Bayshor SBAX	-4	750	-4	150	AG	15	5.2	.0	10.0
P. Bayshor SBDX	-4	-150	-4	-750	AG	6	5.2	.0	10.0
Q. Adams S EBAX	-750	-5	-150	-5	AG	3	5.2	.0	10.0
R. Adams S EBDX	150	-5	750	-5	AG	0	5.2	.0	10.0
S. Adams S WBAX	750	0	150	0	AG	0	5.2	.0	10.0
T. Adams S WBDX	-150	0	-750	0	AG	17	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-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	185.	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	174.	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	5.	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	266.	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	272.	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	98.	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	80.	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	269.	.0	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	*	355.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	176.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	4.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	185.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	271.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	94.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	85.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	269.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	356.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	176.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	4.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	184.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: Existing-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 mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.0	.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	.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	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	*	5	-150	5	0	* AG	183	7.2	.0	10.0
B. East 5th NBD	*	5	0	5	150	* AG	279	5.4	.0	10.0
C. East 5th NBL	*	5	-150	0	0	* AG	320	10.6	.0	10.0
D. East 5th SBA	*	-4	150	-4	0	* AG	165	7.2	.0	10.0
E. East 5th SBD	*	-4	0	-4	-150	* AG	435	5.5	.0	10.0
F. East 5th SBL	*	-2	150	0	0	* AG	0	5.2	.0	10.0
G. I-780 WB EBA	*	-150	0	0	0	* AG	0	4.5	.0	10.0
H. I-780 WB EBD	*	0	0	150	0	* AG	0	4.5	.0	10.0
I. I-780 WB EBL	*	-150	-2	0	0	* AG	0	4.5	.0	10.0
J. I-780 WB WBA	*	150	7	0	7	* AG	99	8.7	.0	10.0
K. I-780 WB WBD	*	0	7	-150	7	* AG	391	6.0	.0	10.0
L. I-780 WB WBL	*	150	5	0	0	* AG	338	10.6	.0	10.0
M. East 5t NBAX	*	5	-750	5	-150	* AG	503	5.2	.0	10.0
N. East 5t NBDX	*	5	150	5	750	* AG	279	5.2	.0	10.0
O. East 5t SBAX	*	-4	750	-4	150	* AG	165	5.2	.0	10.0
P. East 5t SBDX	*	-4	-150	-4	-750	* AG	435	5.2	.0	10.0
Q. I-780 W EBAX	*	-750	0	-150	0	* AG	0	4.5	.0	10.0
R. I-780 W EBDX	*	150	0	750	0	* AG	0	4.5	.0	10.0
S. I-780 W WBAX	*	750	7	150	7	* AG	437	4.5	.0	10.0
T. I-780 W WBDX	*	-150	7	-750	7	* AG	391	4.5	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-01 (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	*	187.	* .8	*	.2	.0	.3	.0	.1	.0	.0	.0
2. NW	*	172.	* 1.1	*	.0	.0	.3	.0	.3	.0	.0	.0
3. SW	*	82.	* 1.1	*	.0	.0	.2	.0	.2	.0	.0	.0
4. NE	*	187.	* 1.1	*	.2	.0	.3	.0	.1	.0	.0	.0
5. ES mdblk	*	277.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	96.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	86.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	259.	* .7	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	351.	1.0	.2	.0	.5	.0	.2	.0	.0	.0
10. NW mdblk	175.	.6	.0	.0	.0	.2	.0	.0	.0	.0
11. SW mdblk	9.	.9	.0	.0	.3	.0	.4	.0	.0	.0
12. NE mdblk	185.	.7	.0	.2	.0	.0	.0	.0	.0	.0
13. ES blk	275.	.3	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	96.	.4	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	85.	.3	.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.	.7	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	175.	.4	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	.7	.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: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-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	.0	.0	.0	.1	.0	.0	.0	.0
2. NW	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.2	.0	.4	.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	.2	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
17. SE blk	.0	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.2	.0	.0	.4	.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: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	4	-150	4	0	AG	775	9.0	.0	10.0
B. East 5th NBD	4	0	4	150	AG	514	5.6	.0	10.0
C. East 5th NBL	2	-150	0	0	AG	0	5.2	.0	10.0
D. East 5th SBA	-5	150	-5	0	AG	364	7.5	.0	10.0
E. East 5th SBD	-5	0	-5	-150	AG	584	5.6	.0	10.0
F. East 5th SBL	-5	150	0	0	AG	80	9.7	.0	10.0
G. I-780 EB EBA	-150	-5	0	-5	AG	220	9.1	.0	10.0
H. I-780 EB EBD	0	-5	150	-5	AG	411	7.8	.0	10.0
I. I-780 EB EBL	-150	-5	0	0	AG	70	9.6	.0	10.0
J. I-780 EB WBA	150	0	0	0	AG	0	4.5	.0	10.0
K. I-780 EB WBD	0	0	-150	0	AG	0	4.5	.0	10.0
L. I-780 EB WBL	150	2	0	0	AG	0	4.5	.0	10.0
M. East 5t NBAX	4	-750	4	-150	AG	775	5.2	.0	10.0
N. East 5t NBDX	4	150	4	750	AG	514	5.2	.0	10.0
O. East 5t SBAX	-5	750	-5	150	AG	444	5.2	.0	10.0
P. East 5t SBDX	-5	-150	-5	-750	AG	584	5.2	.0	10.0
Q. I-780 E EBAX	-750	-5	-150	-5	AG	290	4.5	.0	10.0
R. I-780 E EBDX	150	-5	750	-5	AG	411	4.5	.0	10.0
S. I-780 E WBAX	750	0	150	0	AG	0	4.5	.0	10.0
T. I-780 E WBDX	-150	0	-750	0	AG	0	4.5	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	10	-12	1.8
2. NW	-12	7	1.8
3. SW	-12	-12	1.8
4. NE	10	7	1.8
5. ES mdblk	150	-12	1.8
6. WN mdblk	-150	7	1.8
7. WS mdblk	-150	-12	1.8
8. EN mdblk	150	7	1.8
9. SE mdblk	10	-150	1.8
10. NW mdblk	-12	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	10	150	1.8
13. ES blk	600	-12	1.8
14. WN blk	-600	7	1.8
15. WS blk	-600	-12	1.8
16. EN blk	600	7	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: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-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.	1.4	1.0	.0	.0	.0	.2	.0	.0	.0
2. NW	172.	1.2	.4	.0	.0	.0	.5	.0	.1	.0
3. SW	172.	1.1	.4	.0	.0	.0	.5	.0	.0	.0
4. NE	187.	1.5	.9	.0	.0	.0	.2	.0	.0	.2
5. ES mdblk	276.	.7	.0	.0	.0	.0	.0	.0	.0	.5
6. WN mdblk	97.	.5	.0	.0	.0	.0	.0	.0	.2	.0
7. WS mdblk	84.	.6	.0	.0	.0	.0	.0	.0	.3	.0
8. EN mdblk	262.	.5	.0	.0	.0	.0	.0	.0	.0	.3

9. SE mdblk	352.	1.4	1.0	.0	.0	.0	.2	.0	.0	.0
10. NW mdblk	174.	1.1	.2	.1	.0	.4	.0	.1	.0	.0
11. SW mdblk	8.	1.1	.4	.0	.0	.0	.5	.0	.0	.0
12. NE mdblk	186.	1.0	.1	.4	.0	.1	.0	.0	.0	.0
13. ES blk	275.	.4	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	96.	.3	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	86.	.4	.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.	1.0	.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.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.8	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-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	.1	.0	.0	.0	.0
2. NW	.0	.0	.0	.0	.1	.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	.1	.0	.0	.0	.0
5. ES mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.1	.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	.3	.0	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
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	.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	.2	.4	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.3	.0	.0	.5	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	7	-150	7	0	AG	207	7.8	.0	10.0
B. East 5th NBD	7	0	7	150	AG	820	5.7	.0	10.0
C. East 5th NBL	5	-150	0	0	AG	38	9.7	.0	10.0
D. East 5th SBA	-7	150	-7	0	AG	348	7.8	.0	10.0
E. East 5th SBD	-7	0	-7	-150	AG	296	5.6	.0	10.0
F. East 5th SBL	-5	150	0	0	AG	245	10.5	.0	10.0
G. Military EBA	-150	-2	0	-2	AG	136	7.8	.0	10.0
H. Military EBD	0	-2	150	-2	AG	363	5.6	.0	10.0
I. Military EBL	-150	-2	0	0	AG	130	9.7	.0	10.0
J. Military WBA	150	5	0	5	AG	658	8.2	.0	11.8
K. Military WBD	0	5	-150	5	AG	320	5.6	.0	10.0
L. Military WBL	150	2	0	0	AG	37	9.7	.0	10.0
M. East 5t NBAX	7	-750	7	-150	AG	245	5.2	.0	10.0
N. East 5t NBDX	7	150	7	750	AG	820	5.2	.0	10.0
O. East 5t SBAX	-7	750	-7	150	AG	593	5.2	.0	10.0
P. East 5t SBDX	-7	-150	-7	-750	AG	296	5.2	.0	10.0
Q. Militar EBAX	-750	-2	-150	-2	AG	266	5.2	.0	10.0
R. Militar EBDX	150	-2	750	-2	AG	363	5.2	.0	10.0
S. Militar WBAX	750	5	150	5	AG	695	5.2	.0	11.8
T. Militar WBDX	-150	5	-750	5	AG	320	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-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	352.	1.5	.0	.6	.0	.1	.0	.2	.0	.1
2. NW	96.	1.5	.0	.2	.0	.2	.0	.1	.0	.1
3. SW	8.	1.3	.0	.2	.0	.4	.0	.2	.0	.0
4. NE	260.	1.2	.0	.3	.0	.1	.0	.1	.0	.0
5. ES mdblk	279.	1.0	.0	.0	.0	.0	.0	.0	.0	.3
6. WN mdblk	95.	.8	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	84.	.9	.0	.0	.0	.0	.0	.0	.2	.0
8. EN mdblk	263.	1.2	.0	.0	.0	.0	.0	.0	.0	.1

9. SE mdblk	*	355.	*	.8	*	.2	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	169.	*	1.2	*	.0	.2	.0	.4	.0	.3	.0	.0
11. SW mdblk	*	6.	*	.8	*	.0	.1	.0	.0	.2	.0	.0	.0
12. NE mdblk	*	189.	*	1.2	*	.0	.7	.0	.1	.0	.2	.0	.0
13. ES blk	*	276.	*	.8	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	95.	*	.6	*	.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.	*	.9	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	355.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	173.	*	.9	*	.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.	*	1.0	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-03 (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	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
2. NW	*	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
3. SW	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
4. NE	*	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.7	.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	.3	.3	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.2
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.0
17. SE blk	*	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.3	.5	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.1	.0	.0	.3	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	*	2	-150	2	0	* AG	43	7.8	.0	10.0
B. East 5th NBD	*	2	0	2	150	* AG	121	5.6	.0	10.0
C. East 5th NBL	*	2	-150	0	0	* AG	7	9.7	.0	10.0
D. East 5th SBA	*	-2	150	-2	0	* AG	166	7.8	.0	10.0
E. East 5th SBD	*	-2	0	-2	-150	* AG	92	5.6	.0	10.0
F. East 5th SBL	*	-2	150	0	0	* AG	11	9.7	.0	10.0
G. East H S EBA	*	-150	-2	0	-2	* AG	16	7.8	.0	10.0
H. East H S EBD	*	0	-2	150	-2	* AG	22	5.6	.0	10.0
I. East H S EBL	*	-150	-2	0	0	* AG	76	9.7	.0	10.0
J. East H S WBA	*	150	2	0	2	* AG	8	7.8	.0	10.0
K. East H S WBD	*	0	2	-150	2	* AG	93	5.6	.0	10.0
L. East H S WBL	*	150	2	0	0	* AG	1	9.7	.0	10.0
M. East 5t NBAX	*	2	-750	2	-150	* AG	50	5.2	.0	10.0
N. East 5t NBDX	*	2	150	2	750	* AG	121	5.2	.0	10.0
O. East 5t SBAX	*	-2	750	-2	150	* AG	177	5.2	.0	10.0
P. East 5t SBDX	*	-2	-150	-2	-750	* AG	92	5.2	.0	10.0
Q. East H EBAX	*	-750	-2	-150	-2	* AG	92	5.2	.0	10.0
R. East H EBDX	*	150	-2	750	-2	* AG	22	5.2	.0	10.0
S. East H WBAX	*	750	2	150	2	* AG	9	5.2	.0	10.0
T. East H WBDX	*	-150	2	-750	2	* AG	93	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-8	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-8	1.8
4. NE	*	8	8	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	8	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	8	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-8	150	1.8
11. SW mdblk	*	-8	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-8	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: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-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	*	354.	* .4	*	.0	.1	.0	.1	.0	.0	.0	.0
2. NW	*	6.	* .4	*	.0	.0	.0	.2	.0	.0	.0	.0
3. SW	*	6.	* .5	*	.0	.0	.0	.2	.0	.0	.0	.0
4. NE	*	264.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	273.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	98.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	81.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	268.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0

9.	SE mdblk	355.	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.	NW mdblk	174.	.4	.0	.0	.0	.2	.0	.0	.0	.0	.0
11.	SW mdblk	3.	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.	NE mdblk	188.	.3	.0	.1	.0	.1	.0	.0	.0	.0	.0
13.	ES blk	273.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.	WN blk	95.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.	WS blk	85.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.	EN blk	268.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.	SE blk	355.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	175.	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.	SW blk	3.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	185.	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-04 (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	.1	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.1	.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	.1	.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	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 2nd NBA	*	7	-150	7	0	* AG	159	7.2	.0	10.0
B. East 2nd NBD	*	7	0	7	150	* AG	564	5.4	.0	10.0
C. East 2nd NBL	*	5	-150	0	0	* AG	103	9.7	.0	10.0
D. East 2nd SBA	*	-5	150	-5	0	* AG	508	7.4	.0	11.8
E. East 2nd SBD	*	-5	0	-5	-150	* AG	217	5.4	.0	10.0
F. East 2nd SBL	*	-2	150	0	0	* AG	85	9.7	.0	10.0
G. Military EBA	*	-150	-5	0	-5	* AG	273	9.0	.0	11.8
H. Military EBD	*	0	-5	150	-5	* AG	282	5.9	.0	10.0
I. Military EBL	*	-150	-2	0	0	* AG	334	10.6	.0	10.0
J. Military WBA	*	150	7	0	7	* AG	313	10.0	.0	10.0
K. Military WBD	*	0	7	-150	7	* AG	736	10.5	.0	10.0
L. Military WBL	*	150	5	0	0	* AG	24	9.7	.0	10.0
M. East 2n NBAX	*	7	-750	7	-150	* AG	262	5.2	.0	10.0
N. East 2n NBDX	*	7	150	7	750	* AG	564	5.2	.0	10.0
O. East 2n SBAX	*	-5	750	-5	150	* AG	593	5.2	.0	11.8
P. East 2n SBDX	*	-5	-150	-5	-750	* AG	217	5.2	.0	10.0
Q. Militar EBAX	*	-750	-5	-150	-5	* AG	607	5.2	.0	11.8
R. Militar EBDX	*	150	-5	750	-5	* AG	282	5.2	.0	10.0
S. Militar WBAX	*	750	7	150	7	* AG	337	5.2	.0	10.0
T. Militar WBDX	*	-150	7	-750	7	* AG	736	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	BRG (DEG)	* PRED CONC (PPM)	*	A	B	C	CONC/LINK (PPM) D	E	F	G	H
1. SE	*	279.	* 1.4	*	.0	.0	.0	.0	.0	.0	.3	.0
2. NW	*	261.	* 1.7	*	.0	.0	.0	.0	.0	.0	.1	.0
3. SW	*	7.	* 1.5	*	.0	.1	.0	.5	.0	.0	.2	.0
4. NE	*	262.	* 2.0	*	.0	.2	.0	.2	.0	.0	.1	.0
5. ES mdblk	*	276.	* 1.0	*	.0	.0	.0	.0	.0	.0	.0	.2
6. WN mdblk	*	99.	* 1.7	*	.0	.0	.0	.0	.0	.0	.1	.0
7. WS mdblk	*	79.	* 1.3	*	.0	.0	.0	.0	.0	.0	.4	.0
8. EN mdblk	*	265.	* 1.1	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	*	354.	*	.8	*	.2	.0	.1	.1	.0	.0	.0	.0
10. NW mdblk	*	172.	*	1.0	*	.0	.1	.0	.5	.0	.0	.0	.0
11. SW mdblk	*	5.	*	.8	*	.0	.0	.0	.0	.2	.0	.0	.0
12. NE mdblk	*	191.	*	1.0	*	.0	.4	.0	.2	.0	.0	.0	.0
13. ES blk	*	276.	*	.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	*	84.	*	1.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	265.	*	.6	*	.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.	*	.9	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	5.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	187.	*	.9	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-05 (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	*	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1
2. NW	*	.2	.0	1.1	.0	.0	.0	.0	.0	.1	.0	.0	.0
3. SW	*	.2	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0
4. NE	*	.3	.0	.9	.0	.0	.0	.0	.0	.1	.0	.0	.0
5. ES mdblk	*	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.1	.4	.2	.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	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.6
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.3
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.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	.5	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.1	.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: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Bayshore NBA	*	2	-150	2	0	* AG	117	7.8	.0	10.0
B. Bayshore NBD	*	2	0	2	150	* AG	190	5.6	.0	10.0
C. Bayshore NBL	*	2	-150	0	0	* AG	3	9.7	.0	10.0
D. Bayshore SBA	*	-7	150	-7	0	* AG	48	7.8	.0	10.0
E. Bayshore SBD	*	-7	0	-7	-150	* AG	66	5.6	.0	10.0
F. Bayshore SBL	*	-5	150	0	0	* AG	388	10.6	.0	10.0
G. Park Roa EBA	*	-150	-2	0	-2	* AG	27	7.8	.0	10.0
H. Park Roa EBD	*	0	-2	150	-2	* AG	470	5.6	.0	10.0
I. Park Roa EBL	*	-150	-2	0	0	* AG	15	9.7	.0	10.0
J. Park Roa WBA	*	150	5	0	5	* AG	127	7.8	.0	11.8
K. Park Roa WBD	*	0	5	-150	5	* AG	11	5.6	.0	10.0
L. Park Roa WBL	*	150	2	0	0	* AG	12	9.7	.0	10.0
M. Bayshor NBAX	*	2	-750	2	-150	* AG	120	5.2	.0	10.0
N. Bayshor NBDX	*	2	150	2	750	* AG	190	5.2	.0	10.0
O. Bayshor SBAX	*	-7	750	-7	150	* AG	436	5.2	.0	10.0
P. Bayshor SBDX	*	-7	-150	-7	-750	* AG	66	5.2	.0	10.0
Q. Park Ro EBAX	*	-750	-2	-150	-2	* AG	42	5.2	.0	10.0
R. Park Ro EBDX	*	150	-2	750	-2	* AG	470	5.2	.0	10.0
S. Park Ro WBAX	*	750	5	150	5	* AG	139	5.2	.0	11.8
T. Park Ro WBDX	*	-150	5	-750	5	* AG	11	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-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	*	351.	* 1.0	*	.0	.2	.0	.0	.0	.5	.0	.2
2. NW	*	96.	* .7	*	.0	.0	.0	.0	.0	.2	.0	.2
3. SW	*	7.	* .6	*	.0	.0	.0	.0	.0	.3	.0	.0
4. NE	*	351.	* .7	*	.0	.2	.0	.0	.0	.4	.0	.0
5. ES mdblk	*	280.	* .6	*	.0	.0	.0	.0	.0	.0	.0	.4
6. WN mdblk	*	92.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	87.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	260.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.2

9. SE mdblk	* 357.	* .5	* .1	.0	.0	.0	.0	.1	.0	.0
10. NW mdblk	* 169.	* .7	* .0	.0	.0	.0	.0	.5	.0	.0
11. SW mdblk	* 5.	* .4	* .0	.0	.0	.0	.0	.1	.0	.0
12. NE mdblk	* 188.	* .6	* .0	.2	.0	.0	.0	.3	.0	.0
13. ES blk	* 276.	* .6	* .0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 91.	* .1	* .0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 87.	* .2	* .0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 264.	* .4	* .0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 357.	* .3	* .0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 174.	* .6	* .0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 5.	* .3	* .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: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-06 (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	.1	.0	.0	.0	.0	.0	.0	.0	.1	.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 mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.2	.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	.4	.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	.2	.1	.0
17. SE blk	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.1	.4	.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	.2	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Grant St NBA	2	-150	2	0	AG	1	9.0	.0	10.0
B. Grant St NBD	2	0	2	150	AG	43	5.9	.0	10.0
C. Grant St NBL	2	-150	0	0	AG	277	10.5	.0	10.0
D. Grant St SBA	0	150	0	0	AG	0	5.2	.0	10.0
E. Grant St SBD	0	0	0	-150	AG	85	5.9	.0	10.0
F. Grant St SBL	-2	150	0	0	AG	0	5.2	.0	10.0
G. Military EBA	-150	-2	0	-2	AG	213	7.2	.0	10.0
H. Military EBD	0	-2	150	-2	AG	130	5.4	.0	10.0
I. Military EBL	-150	-2	0	0	AG	43	9.7	.0	10.0
J. Military WBA	150	2	0	2	AG	283	7.2	.0	10.0
K. Military WBD	0	2	-150	2	AG	560	5.4	.0	10.0
L. Military WBL	150	2	0	0	AG	1	9.7	.0	10.0
M. Grant S NBAX	2	-750	2	-150	AG	278	5.2	.0	10.0
N. Grant S NBDX	2	150	2	750	AG	43	5.2	.0	10.0
O. Grant S SBAX	0	750	0	150	AG	0	5.2	.0	10.0
P. Grant S SBDX	0	-150	0	-750	AG	85	5.2	.0	10.0
Q. Militar EBAX	-750	-2	-150	-2	AG	256	5.2	.0	10.0
R. Militar EBDX	150	-2	750	-2	AG	130	5.2	.0	10.0
S. Militar WBAX	750	2	150	2	AG	284	5.2	.0	10.0
T. Militar WBDX	-150	2	-750	2	AG	560	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	8	-8	1.8
2. NW	-7	8	1.8
3. SW	-7	-8	1.8
4. NE	8	8	1.8
5. ES mdblk	150	-8	1.8
6. WN mdblk	-150	8	1.8
7. WS mdblk	-150	-8	1.8
8. EN mdblk	150	8	1.8
9. SE mdblk	8	-150	1.8
10. NW mdblk	-7	150	1.8
11. SW mdblk	-7	-150	1.8
12. NE mdblk	8	150	1.8
13. ES blk	600	-8	1.8
14. WN blk	-600	8	1.8
15. WS blk	-600	-8	1.8
16. EN blk	600	8	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: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-07 (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	.0	.0	.2	.0	.0	.0	.2	.0
2. NW	174.	.9	.0	.0	.4	.0	.0	.0	.0	.0
3. SW	276.	.7	.0	.0	.0	.0	.0	.0	.2	.0
4. NE	264.	.8	.0	.0	.0	.0	.0	.0	.1	.0
5. ES mdblk	275.	.5	.0	.0	.0	.0	.0	.0	.0	.1
6. WN mdblk	98.	.8	.0	.0	.0	.0	.0	.0	.2	.0
7. WS mdblk	83.	.7	.0	.0	.0	.0	.0	.0	.2	.0
8. EN mdblk	265.	.6	.0	.0	.0	.0	.0	.0	.0	.0

9.	SE mdblk	*	351.	*	.6	*	.0	.0	.5	.0	.0	.0	.0	.0
10.	NW mdblk	*	178.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
11.	SW mdblk	*	8.	*	.5	*	.0	.0	.4	.0	.0	.0	.0	.0
12.	NE mdblk	*	183.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
13.	ES blk	*	275.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
14.	WN blk	*	96.	*	.8	*	.0	.0	.0	.0	.0	.0	.0	.0
15.	WS blk	*	84.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.0
16.	EN blk	*	265.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0
17.	SE blk	*	354.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	178.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
19.	SW blk	*	5.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	183.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-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	.0	.0	.0	.1
2. NW	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1
4. NE	*	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.3	.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	.1	.2	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.5
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
17. SE blk	*	.0	.0	.0	.0	.3	.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	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Park Roa NBA	*	2	-150	2	0	* AG	13	7.8	.0	10.0
B. Park Roa NBD	*	2	0	2	150	* AG	60	5.6	.0	10.0
C. Park Roa NBL	*	2	-150	0	0	* AG	0	5.2	.0	10.0
D. Park Roa SBA	*	-2	150	-2	0	* AG	114	7.8	.0	10.0
E. Park Roa SBD	*	-2	0	-2	-150	* AG	8	5.6	.0	10.0
F. Park Roa SBL	*	-2	150	0	0	* AG	3	9.7	.0	10.0
G. Adams St EBA	*	-150	-2	0	-2	* AG	78	7.8	.0	10.0
H. Adams St EBD	*	0	-2	150	-2	* AG	82	5.6	.0	10.0
I. Adams St EBL	*	-150	-2	0	0	* AG	42	9.7	.0	10.0
J. Adams St WBA	*	150	2	0	2	* AG	171	7.8	.0	10.0
K. Adams St WBD	*	0	2	-150	2	* AG	273	5.6	.0	10.0
L. Adams St WBL	*	150	2	0	0	* AG	2	9.7	.0	10.0
M. Park Ro NBAX	*	2	-750	2	-150	* AG	13	5.2	.0	10.0
N. Park Ro NBDX	*	2	150	2	750	* AG	60	5.2	.0	10.0
O. Park Ro SBAX	*	-2	750	-2	150	* AG	117	5.2	.0	10.0
P. Park Ro SBDX	*	-2	-150	-2	-750	* AG	8	5.2	.0	10.0
Q. Adams S EBAX	*	-750	-2	-150	-2	* AG	120	5.2	.0	10.0
R. Adams S EBDX	*	150	-2	750	-2	* AG	82	5.2	.0	10.0
S. Adams S WBAX	*	750	2	150	2	* AG	173	5.2	.0	10.0
T. Adams S WBDX	*	-150	2	-750	2	* AG	273	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-8	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-8	1.8
4. NE	*	8	8	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	8	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	8	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-8	150	1.8
11. SW mdblk	*	-8	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-8	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: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-08 (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.	* .4	*	.0	.0	.0	.0	.0	.0	.1	.0
2. NW	*	264.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	276.	* .4	*	.0	.0	.0	.0	.0	.0	.1	.0
4. NE	*	264.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	275.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	96.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	83.	* .4	*	.0	.0	.0	.0	.0	.0	.1	.0
8. EN mdblk	*	265.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0

9.	SE mdblk	*	357.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
10.	NW mdblk	*	172.	*	.3	*	.0	.0	.0	.2	.0	.0	.0	.0
11.	SW mdblk	*	2.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
12.	NE mdblk	*	189.	*	.2	*	.0	.0	.0	.1	.0	.0	.0	.0
13.	ES blk	*	275.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
14.	WN blk	*	95.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
15.	WS blk	*	84.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
16.	EN blk	*	265.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
17.	SE blk	*	357.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	175.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
19.	SW blk	*	2.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	185.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-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	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.	NW	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.	SW	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.	NE	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.	ES mdblk	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.	WN mdblk	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.	WS mdblk	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.	EN mdblk	*	.0	.2	.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	.1	.0
14.	WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
15.	WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2
16.	EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0
17.	SE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	91. (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 DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Park Roa NBA	2	-150	2	0	AG	1	7.8	.0	10.0
B. Park Roa NBD	2	0	2	150	AG	25	5.6	.0	10.0
C. Park Roa NBL	2	-150	0	0	AG	14	9.7	.0	10.0
D. Park Roa SBA	-2	150	-2	0	AG	13	7.8	.0	10.0
E. Park Roa SBD	-2	0	-2	-150	AG	10	5.6	.0	10.0
F. Park Roa SBL	-2	150	0	0	AG	5	9.7	.0	10.0
G. Polk Str EBA	-150	-2	0	-2	AG	139	7.8	.0	10.0
H. Polk Str EBD	0	-2	150	-2	AG	135	5.6	.0	10.0
I. Polk Str EBL	-150	-2	0	0	AG	7	9.7	.0	10.0
J. Polk Str WBA	150	2	0	2	AG	269	7.8	.0	10.0
K. Polk Str WBD	0	2	-150	2	AG	278	5.6	.0	10.0
L. Polk Str WBL	150	2	0	0	AG	0	5.2	.0	10.0
M. Park Ro NBAX	2	-750	2	-150	AG	15	5.2	.0	10.0
N. Park Ro NBDX	2	150	2	750	AG	25	5.2	.0	10.0
O. Park Ro SBAX	-2	750	-2	150	AG	18	5.2	.0	10.0
P. Park Ro SBDX	-2	-150	-2	-750	AG	10	5.2	.0	10.0
Q. Polk St EBAX	-750	-2	-150	-2	AG	146	5.2	.0	10.0
R. Polk St EBDX	150	-2	750	-2	AG	135	5.2	.0	10.0
S. Polk St WBAX	750	2	150	2	AG	269	5.2	.0	10.0
T. Polk St WBDX	-150	2	-750	2	AG	278	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	8	-8	1.8
2. NW	-8	8	1.8
3. SW	-8	-8	1.8
4. NE	8	8	1.8
5. ES mdblk	150	-8	1.8
6. WN mdblk	-150	8	1.8
7. WS mdblk	-150	-8	1.8
8. EN mdblk	150	8	1.8
9. SE mdblk	8	-150	1.8
10. NW mdblk	-8	150	1.8
11. SW mdblk	-8	-150	1.8
12. NE mdblk	8	150	1.8
13. ES blk	600	-8	1.8
14. WN blk	-600	8	1.8
15. WS blk	-600	-8	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: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-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.	.5	.0	.0	.0	.0	.0	.0	.2	.0
2. NW	96.	.5	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	84.	.4	.0	.0	.0	.0	.0	.0	.0	.1
4. NE	96.	.5	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	276.	.5	.0	.0	.0	.0	.0	.0	.0	.1
6. WN mdblk	96.	.5	.0	.0	.0	.0	.0	.0	.1	.0
7. WS mdblk	84.	.5	.0	.0	.0	.0	.0	.0	.2	.0
8. EN mdblk	264.	.5	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	*	356.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	175.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	4.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	185.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	275.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	95.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	85.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	265.	*	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	357.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	176.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	3.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	184.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-09 (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	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.3	.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	.1	.2	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0
17. SE blk	*	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Bayshore NBA	*	4	-150	4	0	* AG	8	7.2	.0	10.0
B. Bayshore NBD	*	4	0	4	150	* AG	16	5.4	.0	10.0
C. Bayshore NBL	*	2	-150	0	0	* AG	8	9.7	.0	10.0
D. Bayshore SBA	*	-4	150	-4	0	* AG	17	7.2	.0	10.0
E. Bayshore SBD	*	-4	0	-4	-150	* AG	6	5.4	.0	10.0
F. Bayshore SBL	*	-2	150	0	0	* AG	0	5.2	.0	10.0
G. Adams St EBA	*	-150	-5	0	-5	* AG	0	5.2	.0	10.0
H. Adams St EBD	*	0	-5	150	-5	* AG	0	5.2	.0	10.0
I. Adams St EBL	*	-150	-5	0	0	* AG	8	9.7	.0	10.0
J. Adams St WBA	*	150	0	0	0	* AG	0	5.2	.0	10.0
K. Adams St WBD	*	0	0	-150	0	* AG	19	5.9	.0	10.0
L. Adams St WBL	*	150	2	0	0	* AG	0	5.2	.0	10.0
M. Bayshor NBAX	*	4	-750	4	-150	* AG	16	5.2	.0	10.0
N. Bayshor NBDX	*	4	150	4	750	* AG	16	5.2	.0	10.0
O. Bayshor SBAX	*	-4	750	-4	150	* AG	17	5.2	.0	10.0
P. Bayshor SBDX	*	-4	-150	-4	-750	* AG	6	5.2	.0	10.0
Q. Adams S EBAX	*	-750	-5	-150	-5	* AG	8	5.2	.0	10.0
R. Adams S EBDX	*	150	-5	750	-5	* AG	0	5.2	.0	10.0
S. Adams S WBAX	*	750	0	150	0	* AG	0	5.2	.0	10.0
T. Adams S WBDX	*	-150	0	-750	0	* AG	19	5.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-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	*	275.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	174.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	5.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	265.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	272.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	98.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	80.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	268.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0

9.	SE mdblk	*	355.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
10.	NW mdblk	*	175.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
11.	SW mdblk	*	4.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
12.	NE mdblk	*	185.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
13.	ES blk	*	271.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14.	WN blk	*	94.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15.	WS blk	*	85.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16.	EN blk	*	270.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
17.	SE blk	*	357.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	176.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
19.	SW blk	*	3.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	184.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: ExistPP-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 mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.	WN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.	WS mdblk	*	.0	.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	.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	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	*	5	-150	5	0	* AG	245	1.7	.0	10.0
B. East 5th NBD	*	5	0	5	150	* AG	376	1.4	.0	10.0
C. East 5th NBL	*	5	-150	0	0	* AG	390	2.2	.0	10.0
D. East 5th SBA	*	-4	150	-4	0	* AG	229	1.7	.0	10.0
E. East 5th SBD	*	-4	0	-4	-150	* AG	464	1.4	.0	10.0
F. East 5th SBL	*	-2	150	0	0	* AG	0	1.3	.0	10.0
G. I-780 WB EBA	*	-150	0	0	0	* AG	0	1.2	.0	10.0
H. I-780 WB EBD	*	0	0	150	0	* AG	0	1.2	.0	10.0
I. I-780 WB EBL	*	-150	-2	0	0	* AG	0	1.2	.0	10.0
J. I-780 WB WBA	*	150	7	0	7	* AG	135	1.9	.0	10.0
K. I-780 WB WBD	*	0	7	-150	7	* AG	492	1.8	.0	10.0
L. I-780 WB WBL	*	150	5	0	0	* AG	333	2.2	.0	10.0
M. East 5t NBAX	*	5	-750	5	-150	* AG	635	1.3	.0	10.0
N. East 5t NBDX	*	5	150	5	750	* AG	376	1.3	.0	10.0
O. East 5t SBAX	*	-4	750	-4	150	* AG	229	1.3	.0	10.0
P. East 5t SBDX	*	-4	-150	-4	-750	* AG	464	1.3	.0	10.0
Q. I-780 W EBAX	*	-750	0	-150	0	* AG	0	1.2	.0	10.0
R. I-780 W EBDX	*	150	0	750	0	* AG	0	1.2	.0	10.0
S. I-780 W WBAX	*	750	7	150	7	* AG	468	1.2	.0	10.0
T. I-780 W WBDX	*	-150	7	-750	7	* AG	492	1.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-01 (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	*	187.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	172.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	82.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	187.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	277.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	97.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	84.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	260.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0

9.	SE mdblk	*	351.	*	.3	*	.0	.0	.1	.0	.0	.0	.0	.0
10.	NW mdblk	*	175.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
11.	SW mdblk	*	8.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
12.	NE mdblk	*	185.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
13.	ES blk	*	276.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14.	WN blk	*	96.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
15.	WS blk	*	84.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16.	EN blk	*	264.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
17.	SE blk	*	354.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	174.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
19.	SW blk	*	6.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	185.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-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	.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	.1	.0	.0	.0	.0	.0	.0	.0	.0
4.	NE	*	.0	.0	.0	.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	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.	WS mdblk	*	.0	.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	.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	.1	.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	.0	.0	.0	.1	.0	.0	.0	.0
20.	NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	4	-150	4	0	AG	752	2.0	.0	10.0
B. East 5th NBD	4	0	4	150	AG	645	1.4	.0	10.0
C. East 5th NBL	2	-150	0	0	AG	0	1.3	.0	10.0
D. East 5th SBA	-5	150	-5	0	AG	380	1.7	.0	10.0
E. East 5th SBD	-5	0	-5	-150	AG	647	1.4	.0	10.0
F. East 5th SBL	-5	150	0	0	AG	115	2.1	.0	10.0
G. I-780 EB EBA	-150	-5	0	-5	AG	267	2.0	.0	10.0
H. I-780 EB EBD	0	-5	150	-5	AG	317	1.5	.0	10.0
I. I-780 EB EBL	-150	-5	0	0	AG	95	2.1	.0	10.0
J. I-780 EB WBA	150	0	0	0	AG	0	1.2	.0	10.0
K. I-780 EB WBD	0	0	-150	0	AG	0	1.2	.0	10.0
L. I-780 EB WBL	150	2	0	0	AG	0	1.2	.0	10.0
M. East 5t NBAX	4	-750	4	-150	AG	752	1.3	.0	10.0
N. East 5t NBDX	4	150	4	750	AG	645	1.3	.0	10.0
O. East 5t SBAX	-5	750	-5	150	AG	495	1.3	.0	10.0
P. East 5t SBDX	-5	-150	-5	-750	AG	647	1.3	.0	10.0
Q. I-780 E EBAX	-750	-5	-150	-5	AG	362	1.2	.0	10.0
R. I-780 E EBDX	150	-5	750	-5	AG	317	1.2	.0	10.0
S. I-780 E WBAX	750	0	150	0	AG	0	1.2	.0	10.0
T. I-780 E WBDX	-150	0	-750	0	AG	0	1.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	10	-12	1.8
2. NW	-12	7	1.8
3. SW	-12	-12	1.8
4. NE	10	7	1.8
5. ES mdblk	150	-12	1.8
6. WN mdblk	-150	7	1.8
7. WS mdblk	-150	-12	1.8
8. EN mdblk	150	7	1.8
9. SE mdblk	10	-150	1.8
10. NW mdblk	-12	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	10	150	1.8
13. ES blk	600	-12	1.8
14. WN blk	-600	7	1.8
15. WS blk	-600	-12	1.8
16. EN blk	600	7	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: Benicia Lower Arsenal Specific Plan
RUN: CumNP-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.	.3	.2	.0	.0	.0	.0	.0	.0	.0
2. NW	173.	.3	.0	.0	.0	.0	.1	.0	.0	.0
3. SW	7.	.3	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	187.	.3	.2	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	275.	.1	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	98.	.1	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	83.	.2	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	264.	.1	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	353.	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	174.	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	7.	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0
12. NE mdblk	186.	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0
13. ES blk	275.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	96.	.0	.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.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-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 mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.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	.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	.2	.0	.0	.0	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	7	-150	7	0	AG	290	1.8	.0	10.0
B. East 5th NBD	7	0	7	150	AG	785	1.4	.0	10.0
C. East 5th NBL	5	-150	0	0	AG	55	2.1	.0	10.0
D. East 5th SBA	-7	150	-7	0	AG	501	1.8	.0	10.0
E. East 5th SBD	-7	0	-7	-150	AG	403	1.4	.0	10.0
F. East 5th SBL	-5	150	0	0	AG	176	2.1	.0	10.0
G. Military EBA	-150	-2	0	-2	AG	162	1.8	.0	10.0
H. Military EBD	0	-2	150	-2	AG	307	1.4	.0	10.0
I. Military EBL	-150	-2	0	0	AG	176	2.1	.0	10.0
J. Military WBA	150	5	0	5	AG	501	1.8	.0	11.8
K. Military WBD	0	5	-150	5	AG	399	1.4	.0	10.0
L. Military WBL	150	2	0	0	AG	33	2.1	.0	10.0
M. East 5t NBAX	7	-750	7	-150	AG	345	1.3	.0	10.0
N. East 5t NBDX	7	150	7	750	AG	785	1.3	.0	10.0
O. East 5t SBAX	-7	750	-7	150	AG	677	1.3	.0	10.0
P. East 5t SBDX	-7	-150	-7	-750	AG	403	1.3	.0	10.0
Q. Militar EBAX	-750	-2	-150	-2	AG	338	1.3	.0	10.0
R. Militar EBDX	150	-2	750	-2	AG	307	1.3	.0	10.0
S. Militar WBAX	750	5	150	5	AG	534	1.3	.0	11.8
T. Militar WBDX	-150	5	-750	5	AG	399	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-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	352.	.3	.0	.1	.0	.0	.0	.0	.0	.0
2. NW	96.	.3	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	8.	.3	.0	.0	.0	.1	.0	.0	.0	.0
4. NE	262.	.3	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	277.	.2	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	96.	.2	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	83.	.2	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	264.	.2	.0	.0	.0	.0	.0	.0	.0	.0

9.	SE mdblk	*	354.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
10.	NW mdblk	*	171.	*	.3	*	.0	.0	.0	.1	.0	.0	.0	.0
11.	SW mdblk	*	6.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
12.	NE mdblk	*	188.	*	.3	*	.0	.2	.0	.0	.0	.0	.0	.0
13.	ES blk	*	276.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
14.	WN blk	*	95.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
15.	WS blk	*	84.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
16.	EN blk	*	264.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
17.	SE blk	*	354.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	173.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
19.	SW blk	*	6.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	187.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-03 (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	.1	.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 mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.	WN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.	WS mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.	EN mdblk	*	.0	.1	.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	.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	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	.0	.0	.0	.0	.0	.0	.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: Benicia Lower Arsenal Specific Plan
RUN: CumNP-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	*	2	-150	2	0	* AG	58	1.8	.0	10.0
B. East 5th NBD	*	2	0	2	150	* AG	159	1.4	.0	10.0
C. East 5th NBL	*	2	-150	0	0	* AG	10	2.1	.0	10.0
D. East 5th SBA	*	-2	150	-2	0	* AG	219	1.8	.0	10.0
E. East 5th SBD	*	-2	0	-2	-150	* AG	121	1.4	.0	10.0
F. East 5th SBL	*	-2	150	0	0	* AG	16	2.1	.0	10.0
G. East H S EBA	*	-150	-2	0	-2	* AG	21	1.8	.0	10.0
H. East H S EBD	*	0	-2	150	-2	* AG	31	1.4	.0	10.0
I. East H S EBL	*	-150	-2	0	0	* AG	99	2.1	.0	10.0
J. East H S WBA	*	150	2	0	2	* AG	10	1.8	.0	10.0
K. East H S WBD	*	0	2	-150	2	* AG	123	1.4	.0	10.0
L. East H S WBL	*	150	2	0	0	* AG	1	2.1	.0	10.0
M. East 5t NBAX	*	2	-750	2	-150	* AG	68	1.3	.0	10.0
N. East 5t NBDX	*	2	150	2	750	* AG	159	1.3	.0	10.0
O. East 5t SBAX	*	-2	750	-2	150	* AG	235	1.3	.0	10.0
P. East 5t SBDX	*	-2	-150	-2	-750	* AG	121	1.3	.0	10.0
Q. East H EBAX	*	-750	-2	-150	-2	* AG	120	1.3	.0	10.0
R. East H EBDX	*	150	-2	750	-2	* AG	31	1.3	.0	10.0
S. East H WBAX	*	750	2	150	2	* AG	11	1.3	.0	10.0
T. East H WBDX	*	-150	2	-750	2	* AG	123	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-8	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-8	1.8
4. NE	*	8	8	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	8	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	8	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-8	150	1.8
11. SW mdblk	*	-8	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-8	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: Benicia Lower Arsenal Specific Plan
RUN: CumNP-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	*	354.	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	6.	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	6.	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	264.	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	273.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	98.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	81.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	268.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	*	355.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	173.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	3.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	188.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	273.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	95.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	85.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	268.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	355.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	175.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	3.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-04 (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 mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.0	.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	.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	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 2nd NBA	7	-150	7	0	AG	207	1.7	.0	10.0
B. East 2nd NBD	7	0	7	150	AG	751	1.4	.0	10.0
C. East 2nd NBL	5	-150	0	0	AG	140	2.1	.0	10.0
D. East 2nd SBA	-5	150	-5	0	AG	689	1.7	.0	11.8
E. East 2nd SBD	-5	0	-5	-150	AG	277	1.3	.0	10.0
F. East 2nd SBL	-2	150	0	0	AG	109	2.1	.0	10.0
G. Military EBA	-150	-5	0	-5	AG	363	2.0	.0	11.8
H. Military EBD	0	-5	150	-5	AG	360	1.4	.0	10.0
I. Military EBL	-150	-2	0	0	AG	453	2.2	.0	10.0
J. Military WBA	150	7	0	7	AG	393	2.1	.0	10.0
K. Military WBD	0	7	-150	7	AG	981	2.2	.0	10.0
L. Military WBL	150	5	0	0	AG	15	2.1	.0	10.0
M. East 2n NBAX	7	-750	7	-150	AG	347	1.3	.0	10.0
N. East 2n NBDX	7	150	7	750	AG	751	1.3	.0	10.0
O. East 2n SBAX	-5	750	-5	150	AG	798	1.3	.0	11.8
P. East 2n SBDX	-5	-150	-5	-750	AG	277	1.3	.0	10.0
Q. Militar EBAX	-750	-5	-150	-5	AG	816	1.3	.0	11.8
R. Militar EBDX	150	-5	750	-5	AG	360	1.3	.0	10.0
S. Militar WBAX	750	7	150	7	AG	408	1.3	.0	10.0
T. Militar WBDX	-150	7	-750	7	AG	981	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-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	279.	.4	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	261.	.5	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	7.	.5	.0	.0	.0	.1	.0	.0	.0	.0
4. NE	262.	.6	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	276.	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	99.	.5	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	79.	.4	.0	.0	.0	.0	.0	.0	.1	.0
8. EN mdblk	265.	.3	.0	.0	.0	.0	.0	.0	.0	.0

9.	SE mdblk	*	354.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
10.	NW mdblk	*	172.	*	.3	*	.0	.0	.0	.2	.0	.0	.0	.0
11.	SW mdblk	*	5.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
12.	NE mdblk	*	191.	*	.3	*	.0	.2	.0	.0	.0	.0	.0	.0
13.	ES blk	*	276.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
14.	WN blk	*	96.	*	.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	*	265.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
17.	SE blk	*	354.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	174.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
19.	SW blk	*	5.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	187.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-05 (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	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.	NW	*	.0	.0	.3	.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	.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	*	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.	WS mdblk	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.	EN mdblk	*	.0	.1	.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	.2
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	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	.0	.0	.0	.0	.0	.0	.2	.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: Benicia Lower Arsenal Specific Plan
RUN: CumNP-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Bayshore NBA	*	2	-150	2	0	* AG	136	1.8	.0	10.0
B. Bayshore NBD	*	2	0	2	150	* AG	334	1.4	.0	10.0
C. Bayshore NBL	*	2	-150	0	0	* AG	4	2.1	.0	10.0
D. Bayshore SBA	*	-7	150	-7	0	* AG	54	1.8	.0	10.0
E. Bayshore SBD	*	-7	0	-7	-150	* AG	79	1.4	.0	10.0
F. Bayshore SBL	*	-5	150	0	0	* AG	765	2.2	.0	10.0
G. Park Roa EBA	*	-150	-2	0	-2	* AG	37	1.8	.0	10.0
H. Park Roa EBD	*	0	-2	150	-2	* AG	879	1.4	.0	10.0
I. Park Roa EBL	*	-150	-2	0	0	* AG	21	2.1	.0	10.0
J. Park Roa WBA	*	150	5	0	5	* AG	273	1.8	.0	11.8
K. Park Roa WBD	*	0	5	-150	5	* AG	15	1.4	.0	10.0
L. Park Roa WBL	*	150	2	0	0	* AG	17	2.1	.0	10.0
M. Bayshor NBAX	*	2	-750	2	-150	* AG	140	1.3	.0	10.0
N. Bayshor NBDX	*	2	150	2	750	* AG	334	1.3	.0	10.0
O. Bayshor SBAX	*	-7	750	-7	150	* AG	819	1.3	.0	10.0
P. Bayshor SBDX	*	-7	-150	-7	-750	* AG	79	1.3	.0	10.0
Q. Park Ro EBAX	*	-750	-2	-150	-2	* AG	58	1.3	.0	10.0
R. Park Ro EBDX	*	150	-2	750	-2	* AG	879	1.3	.0	10.0
S. Park Ro WBAX	*	750	5	150	5	* AG	290	1.3	.0	11.8
T. Park Ro WBDX	*	-150	5	-750	5	* AG	15	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-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	*	351.	* .4	*	.0	.0	.0	.0	.0	.2	.0	.0
2. NW	*	97.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	84.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.1
4. NE	*	351.	* .3	*	.0	.0	.0	.0	.0	.2	.0	.0
5. ES mdblk	*	281.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.2
6. WN mdblk	*	92.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	87.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	259.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0

9.	SE mdblk	*	357.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
10.	NW mdblk	*	168.	*	.3	*	.0	.0	.0	.0	.0	.2	.0	.0
11.	SW mdblk	*	5.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
12.	NE mdblk	*	189.	*	.2	*	.0	.0	.0	.0	.0	.1	.0	.0
13.	ES blk	*	277.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
14.	WN blk	*	91.	*	.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	*	264.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
17.	SE blk	*	357.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	173.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
19.	SW blk	*	5.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	186.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-06 (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 mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.	WN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.	WS mdblk	*	.0	.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	.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	.0	.0
17.	SE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	.0	.0	.0	.0	.0	.0	.2	.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	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Grant St NBA	*	2	-150	2	0	* AG	1	2.0	.0	10.0
B. Grant St NBD	*	2	0	2	150	* AG	43	1.4	.0	10.0
C. Grant St NBL	*	2	-150	0	0	* AG	121	2.1	.0	10.0
D. Grant St SBA	*	0	150	0	0	* AG	0	1.3	.0	10.0
E. Grant St SBD	*	0	0	0	-150	* AG	7	1.4	.0	10.0
F. Grant St SBL	*	-2	150	0	0	* AG	0	1.3	.0	10.0
G. Military EBA	*	-150	-2	0	-2	* AG	66	1.7	.0	10.0
H. Military EBD	*	0	-2	150	-2	* AG	61	1.3	.0	10.0
I. Military EBL	*	-150	-2	0	0	* AG	43	2.1	.0	10.0
J. Military WBA	*	150	2	0	2	* AG	138	1.7	.0	10.0
K. Military WBD	*	0	2	-150	2	* AG	259	1.3	.0	10.0
L. Military WBL	*	150	2	0	0	* AG	1	2.1	.0	10.0
M. Grant S NBAX	*	2	-750	2	-150	* AG	122	1.3	.0	10.0
N. Grant S NBDX	*	2	150	2	750	* AG	43	1.3	.0	10.0
O. Grant S SBAX	*	0	750	0	150	* AG	0	1.3	.0	10.0
P. Grant S SBDX	*	0	-150	0	-750	* AG	7	1.3	.0	10.0
Q. Militar EBAX	*	-750	-2	-150	-2	* AG	109	1.3	.0	10.0
R. Militar EBDX	*	150	-2	750	-2	* AG	61	1.3	.0	10.0
S. Militar WBAX	*	750	2	150	2	* AG	139	1.3	.0	10.0
T. Militar WBDX	*	-150	2	-750	2	* AG	259	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-8	1.8
2. NW	*	-7	8	1.8
3. SW	*	-7	-8	1.8
4. NE	*	8	8	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	8	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	8	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-7	150	1.8
11. SW mdblk	*	-7	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-8	1.8
16. EN blk	*	600	8	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: Benicia Lower Arsenal Specific Plan
RUN: CumNP-07 (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.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	264.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	276.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	264.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	274.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	97.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	84.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	265.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	* 351.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	* 178.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	* 7.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	* 183.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	* 275.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	* 95.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	* 85.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	* 265.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	* 355.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	* 177.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 5.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 184.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-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	.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 mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.0	.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	.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	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Park Roa NBA	*	2	-150	2	0	* AG	6	1.8	.0	10.0
B. Park Roa NBD	*	2	0	2	150	* AG	23	1.4	.0	10.0
C. Park Roa NBL	*	2	-150	0	0	* AG	0	1.3	.0	10.0
D. Park Roa SBA	*	-2	150	-2	0	* AG	57	1.8	.0	10.0
E. Park Roa SBD	*	-2	0	-2	-150	* AG	4	1.4	.0	10.0
F. Park Roa SBL	*	-2	150	0	0	* AG	1	2.1	.0	10.0
G. Adams St EBA	*	-150	-2	0	-2	* AG	35	1.8	.0	10.0
H. Adams St EBD	*	0	-2	150	-2	* AG	37	1.4	.0	10.0
I. Adams St EBL	*	-150	-2	0	0	* AG	17	2.1	.0	10.0
J. Adams St WBA	*	150	2	0	2	* AG	73	1.8	.0	10.0
K. Adams St WBD	*	0	2	-150	2	* AG	127	1.4	.0	10.0
L. Adams St WBL	*	150	2	0	0	* AG	2	2.1	.0	10.0
M. Park Ro NBAX	*	2	-750	2	-150	* AG	6	1.3	.0	10.0
N. Park Ro NBDX	*	2	150	2	750	* AG	23	1.3	.0	10.0
O. Park Ro SBAX	*	-2	750	-2	150	* AG	58	1.3	.0	10.0
P. Park Ro SBDX	*	-2	-150	-2	-750	* AG	4	1.3	.0	10.0
Q. Adams S EBAX	*	-750	-2	-150	-2	* AG	52	1.3	.0	10.0
R. Adams S EBDX	*	150	-2	750	-2	* AG	37	1.3	.0	10.0
S. Adams S WBAX	*	750	2	150	2	* AG	75	1.3	.0	10.0
T. Adams S WBDX	*	-150	2	-750	2	* AG	127	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-8	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-8	1.8
4. NE	*	8	8	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	8	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	8	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-8	150	1.8
11. SW mdblk	*	-8	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-8	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: Benicia Lower Arsenal Specific Plan
RUN: CumNP-08 (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.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	264.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	276.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	264.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	275.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	96.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	84.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	266.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	*	357.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	172.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	2.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	189.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	275.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	95.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	85.	*	.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	*	357.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	175.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	2.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	185.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-08 (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 mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.0	.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	.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	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Park Roa NBA	*	2	-150	2	0	* AG	0	1.3	.0	10.0
B. Park Roa NBD	*	2	0	2	150	* AG	17	1.4	.0	10.0
C. Park Roa NBL	*	2	-150	0	0	* AG	1	2.1	.0	10.0
D. Park Roa SBA	*	-2	150	-2	0	* AG	12	1.8	.0	10.0
E. Park Roa SBD	*	-2	0	-2	-150	* AG	0	1.3	.0	10.0
F. Park Roa SBL	*	-2	150	0	0	* AG	2	2.1	.0	10.0
G. Polk Str EBA	*	-150	-2	0	-2	* AG	61	1.8	.0	10.0
H. Polk Str EBD	*	0	-2	150	-2	* AG	63	1.4	.0	10.0
I. Polk Str EBL	*	-150	-2	0	0	* AG	7	2.1	.0	10.0
J. Polk Str WBA	*	150	2	0	2	* AG	119	1.8	.0	10.0
K. Polk Str WBD	*	0	2	-150	2	* AG	122	1.4	.0	10.0
L. Polk Str WBL	*	150	2	0	0	* AG	0	1.3	.0	10.0
M. Park Ro NBAX	*	2	-750	2	-150	* AG	1	1.3	.0	10.0
N. Park Ro NBDX	*	2	150	2	750	* AG	17	1.3	.0	10.0
O. Park Ro SBAX	*	-2	750	-2	150	* AG	14	1.3	.0	10.0
P. Park Ro SBDX	*	-2	-150	-2	-750	* AG	0	1.3	.0	10.0
Q. Polk St EBAX	*	-750	-2	-150	-2	* AG	68	1.3	.0	10.0
R. Polk St EBDX	*	150	-2	750	-2	* AG	63	1.3	.0	10.0
S. Polk St WBAX	*	750	2	150	2	* AG	119	1.3	.0	10.0
T. Polk St WBDX	*	-150	2	-750	2	* AG	122	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-8	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-8	1.8
4. NE	*	8	8	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	8	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	8	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-8	150	1.8
11. SW mdblk	*	-8	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-8	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: Benicia Lower Arsenal Specific Plan
RUN: CumNP-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.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	96.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	276.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	264.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	275.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	95.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	84.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	265.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	358.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	172.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	2.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	188.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	275.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	95.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	85.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	265.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	359.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	176.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	1.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	184.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-09 (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 mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.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	.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	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Bayshore NBA	*	4	-150	4	0	* AG	8	1.7	.0	10.0
B. Bayshore NBD	*	4	0	4	150	* AG	11	1.3	.0	10.0
C. Bayshore NBL	*	2	-150	0	0	* AG	8	2.1	.0	10.0
D. Bayshore SBA	*	-4	150	-4	0	* AG	15	1.7	.0	10.0
E. Bayshore SBD	*	-4	0	-4	-150	* AG	6	1.3	.0	10.0
F. Bayshore SBL	*	-2	150	0	0	* AG	0	1.3	.0	10.0
G. Adams St EBA	*	-150	-5	0	-5	* AG	0	1.3	.0	10.0
H. Adams St EBD	*	0	-5	150	-5	* AG	0	1.3	.0	10.0
I. Adams St EBL	*	-150	-5	0	0	* AG	3	2.1	.0	10.0
J. Adams St WBA	*	150	0	0	0	* AG	0	1.3	.0	10.0
K. Adams St WBD	*	0	0	-150	0	* AG	17	1.4	.0	10.0
L. Adams St WBL	*	150	2	0	0	* AG	0	1.3	.0	10.0
M. Bayshor NBAX	*	4	-750	4	-150	* AG	16	1.3	.0	10.0
N. Bayshor NBDX	*	4	150	4	750	* AG	11	1.3	.0	10.0
O. Bayshor SBAX	*	-4	750	-4	150	* AG	15	1.3	.0	10.0
P. Bayshor SBDX	*	-4	-150	-4	-750	* AG	6	1.3	.0	10.0
Q. Adams S EBAX	*	-750	-5	-150	-5	* AG	3	1.3	.0	10.0
R. Adams S EBDX	*	150	-5	750	-5	* AG	0	1.3	.0	10.0
S. Adams S WBAX	*	750	0	150	0	* AG	0	1.3	.0	10.0
T. Adams S WBDX	*	-150	0	-750	0	* AG	17	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-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	*	355.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	174.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	4.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	266.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	272.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	98.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	80.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	269.	.0	*	.0	.0	.0	.0	.0	.0	.0	.0

9.	SE mdblk	*	355.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
10.	NW mdblk	*	176.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
11.	SW mdblk	*	4.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
12.	NE mdblk	*	185.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
13.	ES blk	*	271.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14.	WN blk	*	94.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15.	WS blk	*	85.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16.	EN blk	*	269.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
17.	SE blk	*	356.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	176.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
19.	SW blk	*	4.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	184.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumNP-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 mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.	WN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.	WS mdblk	*	.0	.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	.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	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	*	5	-150	5	0	* AG	258	1.7	.0	10.0
B. East 5th NBD	*	5	0	5	150	* AG	389	1.4	.0	10.0
C. East 5th NBL	*	5	-150	0	0	* AG	439	2.2	.0	10.0
D. East 5th SBA	*	-4	150	-4	0	* AG	235	1.7	.0	10.0
E. East 5th SBD	*	-4	0	-4	-150	* AG	563	1.4	.0	10.0
F. East 5th SBL	*	-2	150	0	0	* AG	0	1.3	.0	10.0
G. I-780 WB EBA	*	-150	0	0	0	* AG	0	1.2	.0	10.0
H. I-780 WB EBD	*	0	0	150	0	* AG	0	1.2	.0	10.0
I. I-780 WB EBL	*	-150	-2	0	0	* AG	0	1.2	.0	10.0
J. I-780 WB WBA	*	150	7	0	7	* AG	135	1.9	.0	10.0
K. I-780 WB WBD	*	0	7	-150	7	* AG	541	2.1	.0	10.0
L. I-780 WB WBL	*	150	5	0	0	* AG	426	2.2	.0	10.0
M. East 5t NBAX	*	5	-750	5	-150	* AG	697	1.3	.0	10.0
N. East 5t NBDX	*	5	150	5	750	* AG	389	1.3	.0	10.0
O. East 5t SBAX	*	-4	750	-4	150	* AG	235	1.3	.0	10.0
P. East 5t SBDX	*	-4	-150	-4	-750	* AG	563	1.3	.0	10.0
Q. I-780 W EBAX	*	-750	0	-150	0	* AG	0	1.2	.0	10.0
R. I-780 W EBDX	*	150	0	750	0	* AG	0	1.2	.0	10.0
S. I-780 W WBAX	*	750	7	150	7	* AG	561	1.2	.0	10.0
T. I-780 W WBDX	*	-150	7	-750	7	* AG	541	1.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-01 (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	*	282.	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	172.	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	82.	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	187.	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	277.	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	97.	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	84.	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	260.	.2	*	.0	.0	.0	.0	.0	.0	.0	.0

9.	SE mdblk	*	350.	*	.3	*	.0	.0	.1	.0	.0	.0	.0	.0
10.	NW mdblk	*	175.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
11.	SW mdblk	*	9.	*	.3	*	.0	.0	.0	.0	.1	.0	.0	.0
12.	NE mdblk	*	185.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
13.	ES blk	*	276.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14.	WN blk	*	96.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
15.	WS blk	*	84.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16.	EN blk	*	264.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
17.	SE blk	*	354.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	174.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
19.	SW blk	*	6.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	185.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-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	.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	.1	.0	.0	.0	.0	.0	.0	.0	.0
4.	NE	*	.0	.0	.0	.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	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.	WS mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.	EN mdblk	*	.0	.0	.0	.1	.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	.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	.1	.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	.0	.0	.0	.1	.0	.0	.0	.0
20.	NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	4	-150	4	0	AG	1005	2.1	.0	10.0
B. East 5th NBD	4	0	4	150	AG	707	1.4	.0	10.0
C. East 5th NBL	2	-150	0	0	AG	0	1.3	.0	10.0
D. East 5th SBA	-5	150	-5	0	AG	480	1.7	.0	10.0
E. East 5th SBD	-5	0	-5	-150	AG	771	1.4	.0	10.0
F. East 5th SBL	-5	150	0	0	AG	115	2.1	.0	10.0
G. I-780 EB EBA	-150	-5	0	-5	AG	291	2.0	.0	10.0
H. I-780 EB EBD	0	-5	150	-5	AG	508	2.1	.0	10.0
I. I-780 EB EBL	-150	-5	0	0	AG	95	2.1	.0	10.0
J. I-780 EB WBA	150	0	0	0	AG	0	1.2	.0	10.0
K. I-780 EB WBD	0	0	-150	0	AG	0	1.2	.0	10.0
L. I-780 EB WBL	150	2	0	0	AG	0	1.2	.0	10.0
M. East 5t NBAX	4	-750	4	-150	AG	1005	1.3	.0	10.0
N. East 5t NBDX	4	150	4	750	AG	707	1.3	.0	10.0
O. East 5t SBAX	-5	750	-5	150	AG	595	1.3	.0	10.0
P. East 5t SBDX	-5	-150	-5	-750	AG	771	1.3	.0	10.0
Q. I-780 E EBAX	-750	-5	-150	-5	AG	386	1.2	.0	10.0
R. I-780 E EBDX	150	-5	750	-5	AG	508	1.2	.0	10.0
S. I-780 E WBAX	750	0	150	0	AG	0	1.2	.0	10.0
T. I-780 E WBDX	-150	0	-750	0	AG	0	1.2	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	10	-12	1.8
2. NW	-12	7	1.8
3. SW	-12	-12	1.8
4. NE	10	7	1.8
5. ES mdblk	150	-12	1.8
6. WN mdblk	-150	7	1.8
7. WS mdblk	-150	-12	1.8
8. EN mdblk	150	7	1.8
9. SE mdblk	10	-150	1.8
10. NW mdblk	-12	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	10	150	1.8
13. ES blk	600	-12	1.8
14. WN blk	-600	7	1.8
15. WS blk	-600	-12	1.8
16. EN blk	600	7	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: Benicia Lower Arsenal Specific Plan
RUN: CumPP-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.	.4	.3	.0	.0	.0	.0	.0	.0	.0
2. NW	172.	.4	.1	.0	.0	.0	.1	.0	.0	.0
3. SW	172.	.3	.1	.0	.0	.0	.2	.0	.0	.0
4. NE	187.	.5	.3	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	276.	.2	.0	.0	.0	.0	.0	.0	.0	.1
6. WN mdblk	97.	.1	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	84.	.2	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	262.	.2	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	352.	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	174.	.3	.0	.0	.0	.1	.0	.0	.0	.0	.0
11. SW mdblk	8.	.3	.1	.0	.0	.0	.2	.0	.0	.0	.0
12. NE mdblk	186.	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0
13. ES blk	275.	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	96.	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-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 mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.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	.1	.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	.2	.0	.0	.0	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	*	7	-150	7	0	* AG	296	1.8	.0	10.0
B. East 5th NBD	*	7	0	7	150	* AG	1038	1.4	.0	10.0
C. East 5th NBL	*	5	-150	0	0	* AG	55	2.1	.0	10.0
D. East 5th SBA	*	-7	150	-7	0	* AG	501	1.8	.0	10.0
E. East 5th SBD	*	-7	0	-7	-150	* AG	416	1.4	.0	10.0
F. East 5th SBL	*	-5	150	0	0	* AG	299	2.2	.0	10.0
G. Military EBA	*	-150	-2	0	-2	* AG	179	1.8	.0	10.0
H. Military EBD	*	0	-2	150	-2	* AG	453	1.4	.0	10.0
I. Military EBL	*	-150	-2	0	0	* AG	176	2.1	.0	10.0
J. Military WBA	*	150	5	0	5	* AG	790	1.8	.0	11.8
K. Military WBD	*	0	5	-150	5	* AG	435	1.4	.0	10.0
L. Military WBL	*	150	2	0	0	* AG	46	2.1	.0	10.0
M. East 5t NBAX	*	7	-750	7	-150	* AG	351	1.3	.0	10.0
N. East 5t NBDX	*	7	150	7	750	* AG	1038	1.3	.0	10.0
O. East 5t SBAX	*	-7	750	-7	150	* AG	800	1.3	.0	10.0
P. East 5t SBDX	*	-7	-150	-7	-750	* AG	416	1.3	.0	10.0
Q. Militar EBAX	*	-750	-2	-150	-2	* AG	355	1.3	.0	10.0
R. Militar EBDX	*	150	-2	750	-2	* AG	453	1.3	.0	10.0
S. Militar WBAX	*	750	5	150	5	* AG	836	1.3	.0	11.8
T. Militar WBDX	*	-150	5	-750	5	* AG	435	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-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	*	352.	* .4	*	.0	.2	.0	.0	.0	.0	.0	.0
2. NW	*	96.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	8.	* .4	*	.0	.0	.0	.1	.0	.0	.0	.0
4. NE	*	261.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	279.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	95.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	84.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	263.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0

9.	SE mdblk	*	355.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
10.	NW mdblk	*	169.	*	.3	*	.0	.0	.0	.1	.0	.0	.0	.0
11.	SW mdblk	*	6.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
12.	NE mdblk	*	189.	*	.3	*	.0	.2	.0	.0	.0	.0	.0	.0
13.	ES blk	*	276.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
14.	WN blk	*	95.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
15.	WS blk	*	84.	*	.2	*	.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.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	173.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
19.	SW blk	*	6.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	187.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-03 (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	.2	.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 mdblk	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.	WN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.	WS mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.	EN mdblk	*	.0	.2	.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	.1	.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	.2	.0
17.	SE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	.0	.0	.0	.0	.0	.0	.2	.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: Benicia Lower Arsenal Specific Plan
RUN: CumPP-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 5th NBA	*	2	-150	2	0	* AG	61	1.8	.0	10.0
B. East 5th NBD	*	2	0	2	150	* AG	165	1.4	.0	10.0
C. East 5th NBL	*	2	-150	0	0	* AG	10	2.1	.0	10.0
D. East 5th SBA	*	-2	150	-2	0	* AG	233	1.8	.0	10.0
E. East 5th SBD	*	-2	0	-2	-150	* AG	128	1.4	.0	10.0
F. East 5th SBL	*	-2	150	0	0	* AG	16	2.1	.0	10.0
G. East H S EBA	*	-150	-2	0	-2	* AG	21	1.8	.0	10.0
H. East H S EBD	*	0	-2	150	-2	* AG	31	1.4	.0	10.0
I. East H S EBL	*	-150	-2	0	0	* AG	102	2.1	.0	10.0
J. East H S WBA	*	150	2	0	2	* AG	10	1.8	.0	10.0
K. East H S WBD	*	0	2	-150	2	* AG	130	1.4	.0	10.0
L. East H S WBL	*	150	2	0	0	* AG	1	2.1	.0	10.0
M. East 5t NBAX	*	2	-750	2	-150	* AG	71	1.3	.0	10.0
N. East 5t NBDX	*	2	150	2	750	* AG	165	1.3	.0	10.0
O. East 5t SBAX	*	-2	750	-2	150	* AG	249	1.3	.0	10.0
P. East 5t SBDX	*	-2	-150	-2	-750	* AG	128	1.3	.0	10.0
Q. East H EBAX	*	-750	-2	-150	-2	* AG	123	1.3	.0	10.0
R. East H EBDX	*	150	-2	750	-2	* AG	31	1.3	.0	10.0
S. East H WBAX	*	750	2	150	2	* AG	11	1.3	.0	10.0
T. East H WBDX	*	-150	2	-750	2	* AG	130	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-8	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-8	1.8
4. NE	*	8	8	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	8	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	8	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-8	150	1.8
11. SW mdblk	*	-8	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-8	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: Benicia Lower Arsenal Specific Plan
RUN: CumPP-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	*	354.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	6.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	6.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	264.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	273.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	98.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	81.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	268.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	*	355.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	173.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	3.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	188.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	273.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	95.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	268.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	355.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	175.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	4.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	186.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-04 (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 mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.0	.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	.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	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. East 2nd NBA	7	-150	7	0	AG	213	1.7	.0	10.0
B. East 2nd NBD	7	0	7	150	AG	761	1.4	.0	10.0
C. East 2nd NBL	5	-150	0	0	AG	140	2.1	.0	10.0
D. East 2nd SBA	-5	150	-5	0	AG	689	1.7	.0	11.8
E. East 2nd SBD	-5	0	-5	-150	AG	290	1.3	.0	10.0
F. East 2nd SBL	-2	150	0	0	AG	114	2.1	.0	10.0
G. Military EBA	-150	-5	0	-5	AG	369	2.0	.0	11.8
H. Military EBD	0	-5	150	-5	AG	377	1.4	.0	10.0
I. Military EBL	-150	-2	0	0	AG	453	2.2	.0	10.0
J. Military WBA	150	7	0	7	AG	416	2.2	.0	10.0
K. Military WBD	0	7	-150	7	AG	994	2.2	.0	10.0
L. Military WBL	150	5	0	0	AG	28	2.1	.0	10.0
M. East 2n NBAX	7	-750	7	-150	AG	353	1.3	.0	10.0
N. East 2n NBDX	7	150	7	750	AG	761	1.3	.0	10.0
O. East 2n SBAX	-5	750	-5	150	AG	803	1.3	.0	11.8
P. East 2n SBDX	-5	-150	-5	-750	AG	290	1.3	.0	10.0
Q. Militar EBAX	-750	-5	-150	-5	AG	822	1.3	.0	11.8
R. Militar EBDX	150	-5	750	-5	AG	377	1.3	.0	10.0
S. Militar WBAX	750	7	150	7	AG	444	1.3	.0	10.0
T. Militar WBDX	-150	7	-750	7	AG	994	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-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	279.	.4	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	261.	.5	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	7.	.5	.0	.0	.0	.1	.0	.0	.0	.0
4. NE	262.	.6	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	276.	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	99.	.5	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	79.	.4	.0	.0	.0	.0	.0	.0	.1	.0
8. EN mdblk	265.	.3	.0	.0	.0	.0	.0	.0	.0	.0

9.	SE mdblk	*	354.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
10.	NW mdblk	*	172.	*	.3	*	.0	.0	.0	.2	.0	.0	.0	.0
11.	SW mdblk	*	5.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
12.	NE mdblk	*	191.	*	.3	*	.0	.2	.0	.0	.0	.0	.0	.0
13.	ES blk	*	276.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
14.	WN blk	*	96.	*	.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	*	265.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
17.	SE blk	*	354.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	174.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0
19.	SW blk	*	5.	*	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	187.	*	.3	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-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	.0	.0	.0	.0
2. NW	*	.0	.0	.3	.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	.3	.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	*	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.1	.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	.2
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	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.0	.2	.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: Benicia Lower Arsenal Specific Plan
RUN: CumPP-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Bayshore NBA	2	-150	2	0	AG	155	1.8	.0	10.0
B. Bayshore NBD	2	0	2	150	AG	358	1.4	.0	10.0
C. Bayshore NBL	2	-150	0	0	AG	4	2.1	.0	10.0
D. Bayshore SBA	-7	150	-7	0	AG	63	1.8	.0	10.0
E. Bayshore SBD	-7	0	-7	-150	AG	88	1.4	.0	10.0
F. Bayshore SBL	-5	150	0	0	AG	767	2.2	.0	10.0
G. Park Roa EBA	-150	-2	0	-2	AG	37	1.8	.0	10.0
H. Park Roa EBD	0	-2	150	-2	AG	881	1.4	.0	10.0
I. Park Roa EBL	-150	-2	0	0	AG	21	2.1	.0	10.0
J. Park Roa WBA	150	5	0	5	AG	278	1.8	.0	11.8
K. Park Roa WBD	0	5	-150	5	AG	15	1.4	.0	10.0
L. Park Roa WBL	150	2	0	0	AG	17	2.1	.0	10.0
M. Bayshor NBAX	2	-750	2	-150	AG	159	1.3	.0	10.0
N. Bayshor NBDX	2	150	2	750	AG	358	1.3	.0	10.0
O. Bayshor SBAX	-7	750	-7	150	AG	830	1.3	.0	10.0
P. Bayshor SBDX	-7	-150	-7	-750	AG	88	1.3	.0	10.0
Q. Park Ro EBAX	-750	-2	-150	-2	AG	58	1.3	.0	10.0
R. Park Ro EBDX	150	-2	750	-2	AG	881	1.3	.0	10.0
S. Park Ro WBAX	750	5	150	5	AG	295	1.3	.0	11.8
T. Park Ro WBDX	-150	5	-750	5	AG	15	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-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	351.	.4	.0	.0	.0	.0	.0	.2	.0	.0
2. NW	97.	.3	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	84.	.3	.0	.0	.0	.0	.0	.0	.0	.1
4. NE	351.	.3	.0	.0	.0	.0	.0	.2	.0	.0
5. ES mdblk	281.	.3	.0	.0	.0	.0	.0	.0	.0	.2
6. WN mdblk	92.	.1	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	87.	.1	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	259.	.2	.0	.0	.0	.0	.0	.0	.0	.0

9.	SE mdblk	357.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.	NW mdblk	168.	.3	.0	.0	.0	.0	.0	.2	.0	.0	.0
11.	SW mdblk	5.	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.	NE mdblk	189.	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0
13.	ES blk	277.	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.	WN blk	91.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.	WS blk	87.	.0	.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	357.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	173.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.	SW blk	5.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	186.	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-06 (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 mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.	WN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.	WS mdblk	.0	.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	.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	.0	.0
17.	SE blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	.0	.0	.0	.0	.0	.0	.2	.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	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Grant St NBA	*	2	-150	2	0	* AG	1	2.0	.0	10.0
B. Grant St NBD	*	2	0	2	150	* AG	43	1.4	.0	10.0
C. Grant St NBL	*	2	-150	0	0	* AG	277	2.2	.0	10.0
D. Grant St SBA	*	0	150	0	0	* AG	0	1.3	.0	10.0
E. Grant St SBD	*	0	0	0	-150	* AG	85	1.4	.0	10.0
F. Grant St SBL	*	-2	150	0	0	* AG	0	1.3	.0	10.0
G. Military EBA	*	-150	-2	0	-2	* AG	213	1.7	.0	10.0
H. Military EBD	*	0	-2	150	-2	* AG	130	1.3	.0	10.0
I. Military EBL	*	-150	-2	0	0	* AG	43	2.1	.0	10.0
J. Military WBA	*	150	2	0	2	* AG	283	1.7	.0	10.0
K. Military WBD	*	0	2	-150	2	* AG	560	1.4	.0	10.0
L. Military WBL	*	150	2	0	0	* AG	1	2.1	.0	10.0
M. Grant S NBAX	*	2	-750	2	-150	* AG	278	1.3	.0	10.0
N. Grant S NBDX	*	2	150	2	750	* AG	43	1.3	.0	10.0
O. Grant S SBAX	*	0	750	0	150	* AG	0	1.3	.0	10.0
P. Grant S SBDX	*	0	-150	0	-750	* AG	85	1.3	.0	10.0
Q. Militar EBAX	*	-750	-2	-150	-2	* AG	256	1.3	.0	10.0
R. Militar EBDX	*	150	-2	750	-2	* AG	130	1.3	.0	10.0
S. Militar WBAX	*	750	2	150	2	* AG	284	1.3	.0	10.0
T. Militar WBDX	*	-150	2	-750	2	* AG	560	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-8	1.8
2. NW	*	-7	8	1.8
3. SW	*	-7	-8	1.8
4. NE	*	8	8	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	8	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	8	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-7	150	1.8
11. SW mdblk	*	-7	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-8	1.8
16. EN blk	*	600	8	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: Benicia Lower Arsenal Specific Plan
RUN: CumPP-07 (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.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	174.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	276.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	264.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	275.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	98.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	83.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	265.	* .2	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	* 351.	* .1	* .0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	* 178.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	* 8.	* .1	* .0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	* 183.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	* 275.	* .1	* .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	* 265.	* .1	* .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	* 178.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	* 5.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	* 183.	* .0	* .0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-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	.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	.1	.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	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.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	.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	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Park Roa NBA	*	2	-150	2	0	* AG	13	1.8	.0	10.0
B. Park Roa NBD	*	2	0	2	150	* AG	60	1.4	.0	10.0
C. Park Roa NBL	*	2	-150	0	0	* AG	0	1.3	.0	10.0
D. Park Roa SBA	*	-2	150	-2	0	* AG	114	1.8	.0	10.0
E. Park Roa SBD	*	-2	0	-2	-150	* AG	8	1.4	.0	10.0
F. Park Roa SBL	*	-2	150	0	0	* AG	3	2.1	.0	10.0
G. Adams St EBA	*	-150	-2	0	-2	* AG	78	1.8	.0	10.0
H. Adams St EBD	*	0	-2	150	-2	* AG	82	1.4	.0	10.0
I. Adams St EBL	*	-150	-2	0	0	* AG	42	2.1	.0	10.0
J. Adams St WBA	*	150	2	0	2	* AG	171	1.8	.0	10.0
K. Adams St WBD	*	0	2	-150	2	* AG	273	1.4	.0	10.0
L. Adams St WBL	*	150	2	0	0	* AG	2	2.1	.0	10.0
M. Park Ro NBAX	*	2	-750	2	-150	* AG	13	1.3	.0	10.0
N. Park Ro NBDX	*	2	150	2	750	* AG	60	1.3	.0	10.0
O. Park Ro SBAX	*	-2	750	-2	150	* AG	117	1.3	.0	10.0
P. Park Ro SBDX	*	-2	-150	-2	-750	* AG	8	1.3	.0	10.0
Q. Adams S EBAX	*	-750	-2	-150	-2	* AG	120	1.3	.0	10.0
R. Adams S EBDX	*	150	-2	750	-2	* AG	82	1.3	.0	10.0
S. Adams S WBAX	*	750	2	150	2	* AG	173	1.3	.0	10.0
T. Adams S WBDX	*	-150	2	-750	2	* AG	273	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-8	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-8	1.8
4. NE	*	8	8	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	8	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	8	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-8	150	1.8
11. SW mdblk	*	-8	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-8	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: Benicia Lower Arsenal Specific Plan
RUN: CumPP-08 (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.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	264.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	276.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	264.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	275.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	96.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	83.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	265.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	*	357.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	172.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	2.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	189.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	275.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	95.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	84.	*	.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	*	357.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	*	175.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	*	2.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	185.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-08 (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 mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.0	.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	.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	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Park Roa NBA	*	2	-150	2	0	* AG	1	1.8	.0	10.0
B. Park Roa NBD	*	2	0	2	150	* AG	25	1.4	.0	10.0
C. Park Roa NBL	*	2	-150	0	0	* AG	14	2.1	.0	10.0
D. Park Roa SBA	*	-2	150	-2	0	* AG	13	1.8	.0	10.0
E. Park Roa SBD	*	-2	0	-2	-150	* AG	10	1.4	.0	10.0
F. Park Roa SBL	*	-2	150	0	0	* AG	5	2.1	.0	10.0
G. Polk Str EBA	*	-150	-2	0	-2	* AG	139	1.8	.0	10.0
H. Polk Str EBD	*	0	-2	150	-2	* AG	135	1.4	.0	10.0
I. Polk Str EBL	*	-150	-2	0	0	* AG	7	2.1	.0	10.0
J. Polk Str WBA	*	150	2	0	2	* AG	269	1.8	.0	10.0
K. Polk Str WBD	*	0	2	-150	2	* AG	278	1.4	.0	10.0
L. Polk Str WBL	*	150	2	0	0	* AG	0	1.3	.0	10.0
M. Park Ro NBAX	*	2	-750	2	-150	* AG	15	1.3	.0	10.0
N. Park Ro NBDX	*	2	150	2	750	* AG	25	1.3	.0	10.0
O. Park Ro SBAX	*	-2	750	-2	150	* AG	18	1.3	.0	10.0
P. Park Ro SBDX	*	-2	-150	-2	-750	* AG	10	1.3	.0	10.0
Q. Polk St EBAX	*	-750	-2	-150	-2	* AG	146	1.3	.0	10.0
R. Polk St EBDX	*	150	-2	750	-2	* AG	135	1.3	.0	10.0
S. Polk St WBAX	*	750	2	150	2	* AG	269	1.3	.0	10.0
T. Polk St WBDX	*	-150	2	-750	2	* AG	278	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-8	1.8
2. NW	*	-8	8	1.8
3. SW	*	-8	-8	1.8
4. NE	*	8	8	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	8	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	8	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-8	150	1.8
11. SW mdblk	*	-8	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	8	1.8
15. WS blk	*	-600	-8	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: Benicia Lower Arsenal Specific Plan
RUN: CumPP-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.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	96.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	84.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	264.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	276.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	96.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	84.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	264.	* .1	*	.0	.0	.0	.0	.0	.0	.0	.0

9.	SE mdblk	*	356.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
10.	NW mdblk	*	175.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
11.	SW mdblk	*	4.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
12.	NE mdblk	*	185.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
13.	ES blk	*	275.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
14.	WN blk	*	95.	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
15.	WS blk	*	85.	*	.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	*	357.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
18.	NW blk	*	176.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
19.	SW blk	*	3.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	184.	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-09 (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 mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.	WN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.	WS mdblk	*	.0	.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	.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	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20.	NE blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	91. (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 DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Bayshore NBA	*	4	-150	4	0	* AG	8	1.7	.0	10.0
B. Bayshore NBD	*	4	0	4	150	* AG	16	1.3	.0	10.0
C. Bayshore NBL	*	2	-150	0	0	* AG	8	2.1	.0	10.0
D. Bayshore SBA	*	-4	150	-4	0	* AG	17	1.7	.0	10.0
E. Bayshore SBD	*	-4	0	-4	-150	* AG	6	1.3	.0	10.0
F. Bayshore SBL	*	-2	150	0	0	* AG	0	1.3	.0	10.0
G. Adams St EBA	*	-150	-5	0	-5	* AG	0	1.3	.0	10.0
H. Adams St EBD	*	0	-5	150	-5	* AG	0	1.3	.0	10.0
I. Adams St EBL	*	-150	-5	0	0	* AG	8	2.1	.0	10.0
J. Adams St WBA	*	150	0	0	0	* AG	0	1.3	.0	10.0
K. Adams St WBD	*	0	0	-150	0	* AG	19	1.4	.0	10.0
L. Adams St WBL	*	150	2	0	0	* AG	0	1.3	.0	10.0
M. Bayshor NBAX	*	4	-750	4	-150	* AG	16	1.3	.0	10.0
N. Bayshor NBDX	*	4	150	4	750	* AG	16	1.3	.0	10.0
O. Bayshor SBAX	*	-4	750	-4	150	* AG	17	1.3	.0	10.0
P. Bayshor SBDX	*	-4	-150	-4	-750	* AG	6	1.3	.0	10.0
Q. Adams S EBAX	*	-750	-5	-150	-5	* AG	8	1.3	.0	10.0
R. Adams S EBDX	*	150	-5	750	-5	* AG	0	1.3	.0	10.0
S. Adams S WBAX	*	750	0	150	0	* AG	0	1.3	.0	10.0
T. Adams S WBDX	*	-150	0	-750	0	* AG	19	1.3	.0	10.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

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

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-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	*	355.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
2. NW	*	174.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW	*	5.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NE	*	265.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
5. ES mdblk	*	272.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	98.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	80.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	269.	* .0	*	.0	.0	.0	.0	.0	.0	.0	.0

9. SE mdblk	355.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	175.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	4.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	185.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	271.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	94.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	85.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	270.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	356.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	176.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	3.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	184.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Benicia Lower Arsenal Specific Plan
RUN: CumPP-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 mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.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	.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	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

URBEMIS 2002 For Windows 8.7.0

'ile Name: <Not Saved>
'roject Name: Feather Creek
'roject Location: Lower Sacramento Valley Air Basin
)n-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

:ONSTRUCTION EMISSION ESTIMATES

*** 2007 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	10.57	6.43	135.79	0.02	1,730.11	0.11	1,730.00

*** 2008 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	6,108.00	11.98	253.12	0.04	3.34	0.22	3.12

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	1,853.04	86.66	2,992.71	7.08	444.09

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	193.37	309.45	2,368.20	1.30	223.96

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	2,046.41	396.11	5,360.91	8.38	668.04

URBEMIS 2002 For Windows 8.7.0

File Name: <Not Saved>
Project Name: Feather Creek
Project Location: Lower Sacramento Valley Air Basin
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

*** 2007 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	10.57	6.43	135.79	0.02	1,730.11	0.11	1,730.00

*** 2008 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	6,108.00	11.98	253.12	0.04	3.34	0.22	3.12

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	235.31	32.15	87.57	0.85	0.35

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	194.89	205.88	2,097.34	1.32	223.96

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	430.20	238.03	2,184.91	2.17	224.31