JFDs of 100-Meter Wind vs. Delta T

April-June 2002

PROGRAM: JFD VERSION: PC-1.2

NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - APR-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 4/ 1/ 2 - 6/30/ 2

*** APR-JUN 2002 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
18.51-24.00	1	0	0	0	0	0	1	3	6	0	0	0	0	0	0	0	11
>24.00	0	0	0	0	0	0	0	6	12	0	0	0	0	0	0	0	18
TOTAL	1	0	0	0	0	0	4	9	20	0	0	0	0	0	0	0	34

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
7.51-12.50	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	3	6	6	0	2	0	0	0	0	3	20
18.51-24.00	1	0	0	0	0	1	4	5	14	0	2	0	0	0	0	1	28
>24.00	0	0	0	0	0	0	0	5	18	0	0	0	0	0	0	6	29
TOTAL	1	0	0	0	0	1	8	16	38	0	4	0	0	0	1	10	79

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - APR-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 4/ 1/ 2 - 6/30/ 2

*** APR-JUN 2002 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	4
7.51-12.50	2	0	1	0	0	0	0	5	6	2	2	0	2	2	0	4	26
12.51-18.50	1	0	1	0	0	0	3	9	11	4	2	0	0	2	1	3	37
18.51-24.00	8	0	0	1	0	1	1	4	13	1	2	1	0	3	1	4	40
>24.00	0	0	0	0	0	0	3	9	11	0	0	0	0	0	1	3	27
TOTAL	12	0	3	1	1	1	7	27	41	7	6	1	2	7	3	15	134

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	3
3.51- 7.50	10	5	7	3	6	6	6	3	4	18	17	4	4	6	4	7	110
7.51-12.50	15	8	9	9	2	4	13	15	21	30	18	17	7	10	14	17	209
12.51-18.50	22	9	16	3	3	6	21	34	41	19	5	10	4	15	22	23	253
18.51-24.00	33	11	4	0	2	3	16	40	48	5	1	1	0	6	21	12	203
>24.00	4	0	0	0	0	5	4	30	57	0	1	1	3	8	6	19	138
TOTAL	84	33	36	15	13	24	60	123	171	72	44	33	18	45	67	78	916

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - APR-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 4/ 1/ 2 - 6/30/ 2

*** APR-JUN 2002 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
3.51- 7.50	6	3	3	1	3	7	5	1	5	3	1	0	0	2	1	0	41
7.51-12.50	18	7	8	6	8	7	5	10	20	28	10	2	2	6	9	16	162
12.51-18.50	28	9	9	7	8	16	25	44	86	13	8	2	1	3	5	38	302
18.51-24.00	7	0	0	1	2	6	6	20	38	1	0	0	1	6	1	7	96
>24.00	3	0	0	0	0	1	1	6	21	2	0	0	0	2	0	4	40
TOTAL	63	19	20	15	21	37	43	81	170	47	19	4	4	19	16	65	643

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3
3.51- 7.50	2	4	2	1	0	0	2	4	2	4	3	0	1	2	3	0	30
7.51-12.50	7	11	6	5	2	6	11	13	11	9	2	1	1	1	4	6	96
12.51-18.50	8	1	2	1	1	11	12	20	12	3	1	1	0	2	1	5	81
18.51-24.00	0	0	0	0	0	1	0	1	3	0	1	1	0	2	3	5	17
>24.00	0	0	0	0	0	0	4	0	0	0	0	0	1	2	0	0	7
TOTAL	18	16	10	7	3	18	29	38	28	16	7	3	3	10	12	16	234

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - APR-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 4/ 1/ 2 - 6/30/ 2

*** APR-JUN 2002 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	0	5	6	3	5	1	0	0	0	0	0	0	0	0	1	1	22
7.51-12.50	1	2	2	0	0	2	1	0	1	2	0	1	1	0	1	1	15
12.51-18.50	1	0	0	0	0	0	3	1	0	0	0	3	1	1	1	0	11
18.51-24.00	1	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	4
>24.00	0	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0	4
TOTAL	3	7	8	3	6	3	9	2	1	2	0	5	2	1	3	2	57

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	2	0	0	0	1	0	1	1	0	0	2	0	0	1	1	0	9
3.51- 7.50	19	17	19	8	15	14	13	8	12	25	21	4	5	10	10	9	209
7.51-12.50	43	28	26	20	12	19	31	43	60	71	32	21	13	19	28	44	510
12.51-18.50	60	19	28	11	12	33	70	114	156	39	18	16	6	23	30	72	707
18.51-24.00	51	11	4	2	4	12	30	74	122	7	6	3	1	17	26	29	399
>24.00	7	0	0	0	0	6	15	56	119	2	1	2	4	12	7	32	263
TOTAL	182	75	77	41	44	84	160	296	469	144	80	46	29	82	102	186	2097

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - APR-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 4/ 1/ 2 - 6/30/ 2

*** APR-JUN 2002 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2184

TOTAL NUMBER OF VALID OBSERVATIONS: 2097

TOTAL NUMBER OF MISSING OBSERVATIONS: 87

PERCENT DATA RECOVERY FOR THIS PERIOD: 96.0 %

MEAN WIND SPEED FOR THIS PERIOD: 15.9 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
1.62	3.77	6.39	43.68	30.66	11.16	2.72

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	1	0	0	0	0	0	4	9	20	0	0	0	0	0	0	0	0
B	1	0	0	0	0	1	8	16	38	0	4	0	0	0	1	10	0
C	12	0	3	1	1	1	7	27	41	7	6	1	2	7	3	15	0
D	84	33	36	15	13	24	60	123	171	72	44	33	18	45	67	78	0
E	63	19	20	15	21	37	43	81	170	47	19	4	4	19	16	65	0
F	18	16	10	7	3	18	29	38	28	16	7	3	3	10	12	16	0
G	3	7	8	3	6	3	9	2	1	2	0	5	2	1	3	2	0
TOTAL	182	75	77	41	44	84	160	296	469	144	80	46	29	82	102	186	0

JFDs of 100-Meter Wind vs. Delta T

January-June 2002

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JAN-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 6/30/ 2

*** JAN-JUN 2002 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
18.51-24.00	2	0	0	0	0	0	1	3	6	0	0	0	0	0	0	0	12
>24.00	0	0	0	0	0	0	0	6	12	0	0	0	0	0	0	2	20
TOTAL	2	0	0	0	0	0	4	9	20	0	0	0	0	0	0	2	37

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
7.51-12.50	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
12.51-18.50	1	0	0	0	0	0	3	7	6	0	2	0	0	0	0	6	25
18.51-24.00	2	0	0	0	0	1	5	5	14	0	2	0	0	0	0	1	30
>24.00	0	0	0	0	0	0	0	5	18	0	0	0	0	0	0	12	35
TOTAL	3	0	0	0	0	1	9	17	38	1	4	0	0	0	1	19	93

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JAN-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 6/30/ 2

*** JAN-JUN 2002 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	0	1	0	1	0	1	0	1	1	0	0	0	0	0	2	8
7.51-12.50	2	0	1	0	0	0	0	5	8	3	4	2	4	3	0	4	36
12.51-18.50	3	1	1	0	1	1	4	9	12	4	3	0	0	2	1	6	48
18.51-24.00	9	1	1	1	0	3	3	5	14	1	2	2	0	4	1	10	57
>24.00	1	0	0	0	0	0	4	13	11	0	0	1	2	0	5	11	48
TOTAL	16	2	4	1	2	4	12	32	46	9	9	5	6	9	7	33	197

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	1	0	1	0	1	0	5	0	3	4	2	0	0	0	0	17
3.51- 7.50	18	8	10	4	9	14	9	7	10	27	28	11	6	8	8	13	190
7.51-12.50	37	17	16	13	7	15	17	18	27	67	39	26	16	15	42	54	426
12.51-18.50	66	27	25	7	10	21	24	41	56	45	25	26	11	31	71	71	557
18.51-24.00	49	28	24	0	4	4	17	48	58	13	8	4	4	19	74	56	410
>24.00	7	7	0	0	0	5	8	33	65	0	2	2	6	22	47	70	274
TOTAL	177	88	75	25	30	60	75	152	216	155	106	71	43	95	242	264	1874

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JAN-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 6/30/ 2

*** JAN-JUN 2002 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	2	0	1	0	1	0	1	0	2	1	2	1	0	0	0	0	11
3.51- 7.50	7	6	4	1	5	10	5	3	5	7	7	1	0	6	4	2	73
7.51-12.50	31	16	12	9	12	12	6	14	25	74	25	7	12	18	32	33	338
12.51-18.50	46	13	13	14	16	31	32	59	109	54	25	10	15	20	34	79	570
18.51-24.00	15	3	0	7	3	9	8	53	69	10	2	9	9	41	33	18	289
>24.00	6	1	0	0	0	1	1	28	24	2	0	4	1	10	4	7	89
TOTAL	107	39	30	31	37	63	53	157	234	148	61	32	37	95	107	139	1370

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3
3.51- 7.50	5	4	4	1	0	0	5	6	7	9	8	1	3	2	3	1	59
7.51-12.50	12	12	7	5	2	6	11	15	16	27	14	7	5	12	14	11	176
12.51-18.50	9	1	2	5	1	11	12	31	21	23	6	11	14	7	12	9	175
18.51-24.00	2	0	0	0	0	1	0	1	6	3	5	8	2	3	4	7	42
>24.00	0	0	0	0	0	0	5	1	0	0	1	1	6	6	1	10	31
TOTAL	29	17	13	11	3	18	33	54	50	62	34	28	30	31	35	38	486

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JAN-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 6/30/ 2

*** JAN-JUN 2002 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	1	0	0	2	1	0	0	0	0	0	0	0	0	1	0	6
3.51- 7.50	1	6	6	3	5	1	0	3	3	9	4	3	2	1	3	2	52
7.51-12.50	3	2	2	0	0	2	1	1	5	9	3	2	3	3	5	5	46
12.51-18.50	1	0	0	0	0	0	3	2	0	1	3	12	8	7	2	1	40
18.51-24.00	1	0	0	0	0	0	2	1	0	0	4	7	0	1	0	0	16
>24.00	0	0	0	0	0	0	3	0	0	0	0	2	1	0	0	1	7
TOTAL	7	9	8	3	7	4	9	7	8	19	14	26	14	12	11	9	167

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	4	2	1	1	3	2	1	5	2	4	6	3	0	1	2	0	37
3.51- 7.50	32	24	25	9	20	25	20	19	27	53	47	16	11	17	19	20	384
7.51-12.50	85	47	38	27	21	35	36	53	82	181	85	44	40	51	93	107	1025
12.51-18.50	126	42	41	26	28	64	81	149	204	127	64	59	48	67	120	172	1418
18.51-24.00	80	32	25	8	7	18	36	116	167	27	23	30	15	68	112	92	856
>24.00	14	8	0	0	0	6	21	86	130	2	3	10	16	38	57	113	504
TOTAL	341	155	130	71	79	150	195	428	612	394	228	162	130	242	403	504	4224

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JAN-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 6/30/ 2

*** JAN-JUN 2002 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4344

TOTAL NUMBER OF VALID OBSERVATIONS: 4224

TOTAL NUMBER OF MISSING OBSERVATIONS: 120

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.2 %

MEAN WIND SPEED FOR THIS PERIOD: 15.9 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.88	2.20	4.66	44.37	32.43	11.51	3.95

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	2	0	0	0	0	0	4	9	20	0	0	0	0	0	0	2	0
B	3	0	0	0	0	1	9	17	38	1	4	0	0	0	1	19	0
C	16	2	4	1	2	4	12	32	46	9	9	5	6	9	7	33	0
D	177	88	75	25	30	60	75	152	216	155	106	71	43	95	242	264	0
E	107	39	30	31	37	63	53	157	234	148	61	32	37	95	107	139	0
F	29	17	13	11	3	18	33	54	50	62	34	28	30	31	35	38	0
G	7	9	8	3	7	4	9	7	8	19	14	26	14	12	11	9	0
TOTAL	341	155	130	71	79	150	195	428	612	394	228	162	130	242	403	504	0

Stability Classes by Hour of Day

100-Meter Wind vs. Delta T

January-June 2002

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 6/30/ 2
STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES

			HOURS																							
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2	1	1	F	F	E	E	E	E	E	E	D	D	D	C	C	C	C	D	D	E	E	E	E	D	D	D
2	1	2	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	E	F	F	F	G	G	G
2	1	3	G	G	G	G	F	F	F	F	F	D	D	B	B	C	C	D	D	E	E	E	E	E	E	E
2	1	4	E	E	E	E	F	F	F	F	F	D	D	D	C	D	D	D	E	E	E	F	F	F	F	E
2	1	5	F	F	F	F	E	F	F	F	E	D	D	D	C	D	D	D	E	E	F	G	G	G	G	G
2	1	6	F	E	E	D	D	E	D	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E
2	1	7	E	E	E	F	F	F	F	F	E	D	D	D	C	C	D	D	E	F	F	F	F	F	F	F
2	1	8	F	F	F	F	F	G	G	E	F	D	D	D	D	D	D	D	E	F	G	F	F	G	G	G
2	1	9	G	F	G	G	F	G	F	F	F	E	E	D	D	D	D	D	E	E	E	F	F	E	E	E
2	1	10	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	F	G	F	F	G	
2	1	11	F	F	G	G	G	G	F	F	E	D	D	D	D	D	D	D	D	D	E	E	F	E	E	E
2	1	12	E	E	D	D	D	D	E	E	D	D	D	D	D	D	D	D	D	F	G	G	G	G	F	F
2	1	13	E	E	E	E	F	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
2	1	14	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
2	1	15	E	E	E	E	E	E	E	E	E	D	C	D	D	D	D	D	D	E	E	E	E	E	E	E
2	1	16	D	D	D	D	D	D	D	D	D	D	D	D	B	D	D	D	D	E	F	G	G	G	G	F
2	1	17	E	F	F	F	F	E	F	F	F	E	D	D	D	D	D	D	D	E	E	E	E	F	G	F
2	1	18	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D
2	1	19	D	D	E	E	E	E	E	E	F	E	D	D	D	D	D	D	D	E	E	E	E	F	F	F
2	1	20	F	E	E	F	E	E	E	E	E	D	D	D	C	C	D	D	D	E	F	F	F	E	E	E
2	1	21	F	F	F	G	G	F	E	E	E	D	D	D	D	D	D	D	D	F	G	G	F	F	F	F
2	1	22	F	F	F	F	F	G	F	F	E	D	D	D	D	D	D	D	E	E	G	G	G	G	G	G
2	1	23	F	E	E	E	D	E	E	E	D	D	D	D	C	B	C	D	D	E	E	E	E	E	E	E
2	1	24	E	E	E	E	E	E	F	F	F	E	D	D	D	D	D	D	D	E	G	G	G	G	G	G
2	1	25	G	G	G	F	F	F	F	E	E	D	D	D	D	D	D	D	D	F	F	E	F	E	E	E
2	1	26	E	E	E	E	E	F	F	F	F	D	D	C	C	B	D	D	E	E	E	E	F	F	F	E
2	1	27	E	F	F	E	-	-	-	E	E	D	D	C	C	D	D	D	E	F	G	F	E	D	D	D
2	1	28	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
2	1	29	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
2	1	30	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
2	1	31	D	D	E	D	D	D	D	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
2	2	1	E	E	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	E	F	F	F	F	F	F
2	2	2	F	G	G	G	G	G	G	G	G	E	E	E	E	D	D	D	E	E	F	F	F	F	F	E
2	2	3	E	E	G	G	G	G	G	G	G	F	F	D	D	D	D	D	D	E	E	E	E	E	E	E
2	2	4	E	E	E	E	E	E	E	E	E	E	D	D	B	C	D	C	C	E	E	F	G	G	G	G
2	2	5	F	F	F	G	G	F	G	G	G	G	F	D	B	D	D	D	D	E	F	F	G	G	G	G
2	2	6	G	G	G	G	G	G	G	F	E	E	D	D	D	D	D	D	D	E	E	E	E	D	D	D
2	2	7	D	D	D	D	E	E	E	E	D	D	D	D	C	A	D	D	E	E	E	F	F	F	F	F
2	2	8	E	G	F	E	F	F	F	G	F	E	D	D	D	D	E	E	E	F	E	E	E	E	E	E
2	2	9	E	E	E	E	E	E	E	E	E	D	E	E	E	D	E	E	E	E	E	E	E	E	E	E
2	2	10	E	E	E	E	E	E	D	D	D	D	D	D	D	C	C	D	D	D	D	E	E	E	E	E
2	2	11	F	E	E	F	E	F	E	E	E	D	D	D	D	D	D	D	E	E	F	F	F	E	E	E
2	2	12	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	F	F	F	G	F
2	2	13	E	E	F	F	F	F	G	G	G	E	D	D	D	D	D	D	D	E	F	F	F	F	F	F
2	2	14	F	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 6/30/ 2
STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES

			HOURS																							
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2	2	15	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	F	E	E	F	F
2	2	16	F	F	F	F	E	E	E	E	E	D	D	A	B	B	C	D	D	E	F	G	G	G	G	G
2	2	17	G	G	G	G	G	G	G	G	F	E	D	B	C	A	C	D	D	E	E	E	E	E	E	E
2	2	18	E	E	E	E	E	E	E	E	D	D	C	D	D	D	D	E	E	E	E	E	E	E	E	D
2	2	19	E	E	E	E	E	E	F	E	E	E	E	E	E	E	E	E	E	E	E	E	D	D	D	D
2	2	20	D	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
2	2	21	E	E	E	E	E	E	E	E	D	D	D	C	B	B	B	C	D	D	E	F	F	F	E	E
2	2	22	F	F	F	G	G	G	G	G	F	D	C	C	C	C	C	C	D	D	E	E	E	E	E	E
2	2	23	E	E	E	E	E	E	E	E	D	D	C	B	C	C	C	C	D	E	F	F	E	E	E	E
2	2	24	E	E	E	E	E	E	E	E	E	D	C	D	C	B	C	C	D	D	D	D	D	D	D	D
2	2	25	D	D	D	D	D	D	D	D	D	A	A	A	A	A	C	D	D	D	D	D	D	D	D	D
2	2	26	D	D	D	D	D	D	D	D	D	D	B	B	B	C	B	C	D	D	D	D	D	D	D	E
2	2	27	E	E	E	E	E	E	E	E	D	D	C	B	B	C	C	C	D	D	E	E	E	E	E	E
2	2	28	E	E	E	E	E	E	E	F	D	D	C	C	C	C	C	C	D	D	F	G	F	F	E	D
2	3	1	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D
2	3	2	D	D	D	D	D	D	D	D	D	D	C	C	B	A	B	B	D	D	D	D	E	E	E	E
2	3	3	E	E	E	E	E	E	D	D	D	D	B	B	B	B	B	C	C	D	D	E	E	E	E	F
2	3	4	F	E	E	E	D	D	E	D	D	D	D	C	D	D	D	D	D	E	E	F	F	F	G	F
2	3	5	F	F	F	E	F	F	F	F	D	D	D	C	D	C	C	D	D	E	F	F	F	F	F	F
2	3	6	E	E	F	G	G	G	G	G	E	D	C	A	A	A	A	A	C	D	D	D	D	D	D	D
2	3	7	D	-	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
2	3	8	E	D	D	D	D	E	E	E	E	E	E	E	E	E	E	D	D	D	E	E	E	E	E	D
2	3	9	D	D	D	D	D	D	D	D	D	C	B	B	B	B	C	D	D	D	D	E	E	F	F	F
2	3	10	F	F	F	E	E	D	D	D	D	D	C	B	B	B	B	D	D	E	E	E	E	E	E	E
2	3	11	E	E	E	E	E	E	E	E	D	D	C	D	D	D	C	D	D	D	E	E	E	E	E	F
2	3	12	E	F	F	G	G	G	F	F	E	D	D	C	C	C	B	C	D	E	F	F	F	F	F	F
2	3	13	F	E	E	E	E	F	F	E	D	D	B	C	B	C	B	B	D	D	E	E	E	D	D	E
2	3	14	E	E	E	E	E	E	E	D	D	D	B	B	B	B	A	B	D	D	D	D	D	D	D	D
2	3	15	D	D	D	D	D	D	D	D	D	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	3	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B	D	D	D	E	E	D	D	D
2	3	17	E	E	E	E	E	D	E	D	D	C	C	C	A	A	-	-	-	-	-	-	-	-	-	-
2	3	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	3	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	3	21	-	-	-	-	-	D	D	D	A	A	A	A	A	A	A	A	C	D	D	E	E	E	D	E
2	3	22	E	E	E	E	E	E	E	D	D	B	B	A	B	B	A	B	C	D	E	F	F	F	F	F
2	3	23	F	F	E	E	F	F	F	E	D	B	C	F	A	A	A	B	D	D	E	E	E	E	E	E
2	3	24	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E
2	3	25	E	E	E	E	E	D	D	D	D	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	3	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	3	27	-	-	-	-	-	-	-	-	-	-	-	-	A	B	A	B	D	D	E	E	F	E	E	E
2	3	28	E	E	E	E	E	E	E	D	D	D	C	B	B	B	B	C	D	D	E	G	G	F	F	E
2	3	29	E	E	F	F	E	E	E	D	D	D	D	C	C	C	B	C	D	D	E	F	G	G	G	G
2	3	30	G	G	G	G	F	E	E	D	D	D	C	C	D	D	D	D	D	D	D	E	E	E	E	F
2	3	31	F	F	E	E	E	E	E	D	D	D	C	C	B	C	B	C	D	D	E	F	E	F	G	G

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 6/30/ 2
STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES

			HOURS																					
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2	4	1	F	F	F	E	E	E	E	D	D	C	A	A	A	B	B	C	D	D	E	E	E	E	E	E
2	4	2	E	D	D	D	D	D	D	D	D	-	A	A	A	A	A	B	C	D	D	D	D	E	E	E
2	4	3	E	E	D	D	D	E	D	D	B	A	A	A	A	-	-	-	-	-	-	-	-	-	-	-
2	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	E	F	F	F	G	G
2	4	5	F	F	F	F	G	G	G	E	A	A	B	B	C	B	B	C	D	D	E	E	E	E	E	E
2	4	6	E	E	E	E	E	E	E	D	D	C	B	A	A	B	C	D	D	D	D	D	D	D	D	D
2	4	7	D	D	D	D	D	E	D	E	E	D	D	D	D	E	E	E	E	E	E	E	E	E	E	E
2	4	8	E	E	E	E	E	E	E	E	E	E	F	F	F	F	F	E	E	E	E	F	F	F	F	E
2	4	9	E	E	E	E	E	E	E	D	D	C	C	D	C	C	C	-	A	A	D	F	F	F	F	F
2	4	10	E	E	E	F	F	E	E	D	C	B	A	A	A	A	A	B	C	D	E	E	E	E	E	E
2	4	11	E	E	E	E	E	E	E	E	E	-	-	-	-	-	D	D	D	D	D	D	D	D	D	D
2	4	12	D	D	D	D	D	D	D	D	D	D	D	D	D	D	B	B	C	D	D	E	F	F	F	F
2	4	13	F	F	F	G	G	F	F	E	D	D	D	B	B	C	A	B	D	D	D	E	E	E	E	E
2	4	14	E	E	E	E	E	E	E	E	D	C	B	A	C	B	B	C	D	D	E	G	G	F	E	E
2	4	15	E	E	E	E	E	E	E	D	C	A	A	A	A	A	A	A	A	D	D	E	E	E	E	E
2	4	16	E	E	E	E	E	E	D	D	D	B	A	A	A	B	C	D	C	D	D	D	D	E	E	D
2	4	17	E	E	E	F	G	F	F	D	D	C	C	B	C	B	A	A	A	D	D	E	E	E	E	E
2	4	18	E	E	E	E	E	E	E	D	D	C	A	A	A	A	A	C	E	E	E	E	F	F	G	F
2	4	19	E	D	D	D	D	D	D	D	B	A	A	A	A	A	B	D	D	D	D	D	D	D	D	D
2	4	20	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E	E
2	4	21	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F
2	4	22	F	F	F	F	F	F	F	D	D	C	B	B	B	A	A	B	B	D	D	E	E	E	E	F
2	4	23	F	F	E	E	E	E	E	D	D	D	D	C	B	A	A	B	B	D	D	E	E	E	E	E
2	4	24	E	E	E	E	E	E	E	E	E	D	C	B	A	A	B	B	D	D	D	E	E	F	F	F
2	4	25	F	G	G	G	F	F	E	D	C	C	B	B	B	B	C	D	D	D	D	E	E	F	F	F
2	4	26	E	E	E	D	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
2	4	27	D	D	E	E	E	E	F	F	F	F	F	F	F	F	E	D	D	D	D	E	E	D	D	D
2	4	28	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	E	F	F	F	E
2	4	29	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	G	F	E	F	F
2	4	30	F	F	F	F	F	F	F	D	D	C	B	B	C	B	C	D	D	D	D	E	D	E	D	D
2	5	1	D	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
2	5	2	E	E	E	E	E	E	E	D	D	D	C	C	C	B	C	C	C	D	D	F	G	G	G	G
2	5	3	G	F	F	G	G	G	F	D	C	C	B	A	A	A	B	B	B	C	D	E	E	E	F	F
2	5	4	F	F	F	F	E	E	D	D	D	C	B	C	C	D	D	D	D	D	D	F	E	E	E	E
2	5	5	E	E	E	E	F	F	E	D	D	A	A	A	A	A	A	A	C	D	E	E	E	D	E	E
2	5	6	F	E	E	E	F	F	E	E	D	C	D	C	B	C	B	C	D	D	D	E	F	F	F	F
2	5	7	E	E	E	E	E	E	D	D	D	C	B	B	A	A	A	D	D	D	D	D	D	D	D	D
2	5	8	E	E	E	F	F	G	F	D	D	B	D	C	C	D	D	D	D	D	E	E	D	E	E	D
2	5	9	D	D	E	E	E	E	D	D	D	C	C	B	B	B	B	C	D	D	D	F	G	G	G	G
2	5	10	G	G	G	G	F	F	E	E	D	D	B	B	D	C	B	D	D	D	D	D	D	E	D	D
2	5	11	E	E	E	E	E	E	E	E	E	E	E	E	E	E	D	E	E	E	E	E	E	E	E	E
2	5	12	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E
2	5	13	E	E	F	E	E	E	E	D	D	D	C	C	D	D	C	D	D	D	E	G	G	G	G	G
2	5	14	G	G	G	G	G	G	G	E	D	C	B	B	C	B	A	B	C	D	D	E	E	E	E	E
2	5	15	E	E	E	E	E	E	D	D	C	A	A	A	A	B	C	D	D	D	D	E	E	E	E	E

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 6/30/ 2
STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES

			HOURS																							
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2	5	16	E	E	E	E	E	E	F	E	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D
2	5	17	E	E	E	E	E	E	E	D	D	B	A	A	A	A	A	B	C	D	D	E	F	F	F	F
2	5	18	F	E	F	F	F	G	E	D	D	B	A	B	B	B	A	C	C	D	D	E	G	G	G	G
2	5	19	G	G	G	G	G	F	E	D	D	C	C	B	C	D	D	C	D	D	D	F	G	G	G	G
2	5	20	G	G	G	F	E	E	D	D	D	C	C	B	C	C	B	C	C	D	D	E	E	E	E	E
2	5	21	E	E	E	E	E	D	D	C	B	A	A	A	A	A	A	A	A	C	D	D	D	E	E	E
2	5	22	E	E	E	E	E	D	D	C	D	D	B	A	D	D	D	D	D	D	D	D	E	E	E	F
2	5	23	F	E	E	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	E	F	F	E	E	E
2	5	24	E	E	E	D	D	D	D	D	D	D	D	D	E	E	D	D	E	D	E	E	E	E	F	F
2	5	25	F	F	F	-	-	-	E	D	D	D	D	C	C	D	C	D	D	D	D	F	F	F	F	F
2	5	26	F	F	E	E	E	E	E	D	C	A	B	A	B	C	B	A	C	D	D	E	E	E	E	F
2	5	27	E	E	E	E	F	F	F	D	D	D	D	D	C	D	C	D	C	C	D	E	E	F	F	F
2	5	28	F	F	E	E	E	E	D	D	D	C	A	A	A	A	C	D	D	F	F	F	F	G	G	F
2	5	29	E	E	E	F	E	F	E	D	D	C	B	A	A	A	A	B	C	D	D	E	E	E	E	E
2	5	30	E	E	E	F	E	E	D	D	D	D	C	C	C	B	A	B	C	D	D	E	F	F	F	F
2	5	31	F	E	E	E	E	E	D	D	D	C	C	C	C	C	B	B	B	C	D	E	E	E	E	E
2	6	1	E	E	E	E	E	E	D	D	C	B	C	D	B	B	A	A	C	C	D	D	E	E	E	E
2	6	2	E	E	E	E	E	D	D	C	B	B	A	A	A	A	A	A	A	D	D	D	D	D	D	E
2	6	3	D	E	E	E	E	E	D	D	C	B	C	C	B	D	E	D	D	E	E	D	D	E	E	E
2	6	4	E	E	E	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	E	F	F	E	E	E
2	6	5	F	F	G	G	F	F	E	D	D	D	C	B	B	B	C	B	D	D	E	F	G	G	G	G
2	6	6	G	F	E	F	F	F	E	D	D	C	B	C	B	B	A	A	A	B	D	E	E	E	E	E
2	6	7	E	E	E	F	F	E	D	C	B	A	A	A	A	A	A	A	A	B	D	D	E	E	E	E
2	6	8	E	E	E	E	E	E	D	C	A	A	A	A	A	A	A	A	A	A	D	D	E	D	D	D
2	6	9	D	E	E	E	E	D	D	D	B	A	A	A	A	A	A	A	A	A	C	D	D	D	D	D
2	6	10	D	E	E	E	E	E	D	D	D	D	D	B	A	B	B	A	B	C	D	D	D	D	D	D
2	6	11	E	E	E	E	E	E	E	E	E	D	A	C	D	D	D	D	D	D	E	E	D	D	D	E
2	6	12	E	E	E	E	E	E	D	D	D	E	E	E	D	D	D	D	E	D	D	E	E	E	E	E
2	6	13	E	E	E	E	E	E	D	D	D	D	D	D	C	B	B	C	D	D	D	E	F	F	F	F
2	6	14	F	F	F	E	E	E	D	D	C	B	A	A	A	A	B	C	D	D	D	E	F	G	G	G
2	6	15	G	G	E	G	F	E	E	D	D	C	C	C	C	B	D	D	D	D	D	E	E	E	E	E
2	6	16	F	G	G	G	F	E	D	D	D	B	A	B	C	C	A	B	C	D	E	F	F	F	E	E
2	6	17	E	E	E	E	E	E	D	D	D	B	B	C	A	A	A	A	B	C	D	D	E	E	E	E
2	6	18	E	E	D	D	D	D	D	D	D	D	C	A	A	A	A	A	A	C	D	D	D	E	D	D
2	6	19	D	D	E	E	E	E	D	D	C	B	A	A	A	A	A	A	A	B	D	D	E	E	E	E
2	6	20	E	E	E	E	E	E	D	D	D	C	C	B	B	A	A	A	B	C	D	E	E	F	F	E
2	6	21	E	E	E	E	E	E	D	D	D	A	A	A	A	A	A	A	A	C	D	D	E	E	E	E
2	6	22	E	E	E	E	E	E	D	D	D	C	A	A	A	A	A	A	B	C	D	D	E	E	E	E
2	6	23	E	E	E	E	E	E	D	D	C	B	A	A	A	A	A	A	A	B	D	E	E	F	F	E
2	6	24	E	E	E	E	E	E	E	D	C	A	A	B	A	A	A	A	A	A	D	E	E	E	E	E
2	6	25	F	F	F	F	F	F	E	D	D	D	C	C	A	B	A	B	C	C	D	E	E	E	E	F
2	6	26	E	E	E	E	F	F	E	D	D	D	D	C	D	C	D	A	A	A	B	D	E	E	E	E
2	6	27	E	E	F	G	F	F	F	D	C	B	B	A	B	A	B	B	C	D	E	E	F	F	F	G
2	6	28	G	F	F	F	F	E	D	D	C	B	A	A	A	A	A	A	A	B	C	D	E	E	E	D
2	6	29	E	E	E	E	E	E	D	D	D	D	C	A	A	A	A	A	A	C	D	D	E	E	E	E

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 6/30/ 2
STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES

			HOURS																					
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2	6	30	E	E	E	E	E	E	D	D	C	B	A	A	A	A	A	A	A	B	D	D	E	E	E	E

JFDs of 100-Meter Wind vs. Delta T

July-September 2002

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-SEP 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 9/30/ 2

*** JUL-SEP 2002 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
18.51-24.00	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL	0	0	0	0	0	1	1	1	3	0	0	0	0	0	0	0	6

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	2	5	2	0	0	0	0	0	0	0	0	9
12.51-18.50	1	1	0	0	0	0	8	8	11	1	2	0	0	0	0	2	34
18.51-24.00	0	0	0	0	0	0	1	3	9	1	0	0	0	0	0	0	14
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL	1	1	0	0	0	2	14	13	21	2	2	0	0	0	0	2	58

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-SEP 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 9/30/ 2

*** JUL-SEP 2002 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	1	0	0	1	1	4	0	1	0	0	0	0	0	0	0	9
7.51-12.50	5	0	2	4	1	4	13	4	7	1	0	1	1	0	0	2	45
12.51-18.50	1	2	0	1	1	0	10	20	22	4	0	0	1	0	0	10	72
18.51-24.00	4	3	0	0	0	1	0	6	6	1	0	0	0	0	0	0	21
>24.00	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
TOTAL	11	6	2	5	3	6	27	31	37	6	0	1	2	0	0	12	149

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	2	0	0	0	0	1	0	1	1	1	0	1	1	0	1	10
3.51- 7.50	13	14	10	10	6	13	16	22	28	13	6	5	3	4	5	7	175
7.51-12.50	10	8	5	9	12	50	43	31	52	20	15	6	2	4	9	16	292
12.51-18.50	16	4	10	7	4	27	54	20	38	19	9	5	3	3	7	31	257
18.51-24.00	5	3	0	1	0	0	0	13	24	3	0	0	0	0	3	8	60
>24.00	0	0	0	0	0	0	2	4	7	0	0	0	0	0	0	1	14
TOTAL	45	31	25	27	22	90	116	90	150	56	31	16	9	12	24	64	808

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-SEP 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 9/30/ 2

*** JUL-SEP 2002 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	5	0	1	0	1	0	2	0	0	0	0	1	0	10
3.51- 7.50	4	9	6	5	4	4	2	3	7	9	1	0	1	2	1	1	59
7.51-12.50	12	14	22	14	14	36	32	30	46	45	10	2	0	4	10	12	303
12.51-18.50	23	13	5	4	4	28	70	45	73	19	10	3	4	7	10	21	339
18.51-24.00	10	0	1	1	4	7	28	21	44	2	2	3	4	0	2	4	133
>24.00	1	0	0	0	0	0	1	1	17	0	1	0	0	1	0	0	22
TOTAL	50	36	34	29	26	76	133	101	187	77	24	8	9	14	24	38	866

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	2	0	1	0	0	0	1	1	3	1	0	1	0	0	0	11
3.51- 7.50	3	3	5	3	3	5	1	2	5	4	2	3	1	3	3	2	48
7.51-12.50	6	8	5	2	5	12	16	17	14	23	9	3	1	1	6	5	133
12.51-18.50	1	3	0	0	0	3	9	14	7	4	4	1	0	1	4	6	57
18.51-24.00	2	0	0	0	0	1	3	3	2	1	0	2	0	0	0	0	14
>24.00	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
TOTAL	13	16	10	6	8	21	29	37	29	36	16	9	3	5	13	13	264

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-SEP 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 9/30/ 2

*** JUL-SEP 2002 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	1	1	1	1	0	1	0	2	0	1	0	0	1	1	1	11
3.51- 7.50	0	0	1	2	0	1	0	3	4	0	2	0	0	0	4	1	18
7.51-12.50	0	0	1	0	0	0	2	10	0	4	0	1	0	0	0	0	18
12.51-18.50	0	0	0	0	0	1	0	7	0	1	0	0	0	0	0	0	9
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL	0	1	3	3	1	2	3	20	7	5	3	1	0	1	5	2	57

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	2	5	1	7	1	1	2	2	4	6	3	0	2	2	2	2	42
3.51- 7.50	21	27	22	20	14	24	23	30	45	26	11	8	5	9	13	11	309
7.51-12.50	33	30	35	29	32	104	111	94	120	93	34	13	4	9	25	35	801
12.51-18.50	42	23	15	12	9	59	152	115	151	48	25	9	8	11	21	70	770
18.51-24.00	21	6	1	2	4	10	32	46	86	8	2	5	4	0	5	12	244
>24.00	1	0	0	0	0	0	3	6	28	1	1	0	0	1	0	1	42
TOTAL	120	91	74	70	60	198	323	293	434	182	76	35	23	32	66	131	2208

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-SEP 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 9/30/ 2

*** JUL-SEP 2002 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2208

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 12.6 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.27	2.63	5.75	36.59	39.22	11.96	2.58

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	1	1	1	3	0	0	0	0	0	0	0	0
B	1	1	0	0	0	2	14	13	21	2	2	0	0	0	0	2	0
C	11	6	2	5	3	6	27	31	37	6	0	1	2	0	0	12	0
D	45	31	25	27	22	90	116	90	150	56	31	16	9	12	24	64	0
E	50	36	34	29	26	76	133	101	187	77	24	8	9	14	24	38	0
F	13	16	10	6	8	21	29	37	29	36	16	9	3	5	13	13	0
G	0	1	3	3	1	2	3	20	7	5	3	1	0	1	5	2	0
TOTAL	120	91	74	70	60	198	323	293	434	182	76	35	23	32	66	131	0

JFDs of 100-Meter Wind vs. Delta T

October-December 2002

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - OCT-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 10/ 1/ 2 - 12/31/ 2

*** OCT-DEC 2002 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	6	0	0	0	0	2	0	0	8

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - OCT-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 10/ 1/ 2 - 12/31/ 2

*** OCT-DEC 2002 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7.51-12.50	1	0	0	0	0	0	0	1	0	0	2	1	0	0	0	0	5
12.51-18.50	0	0	0	0	0	0	0	1	5	4	0	0	0	0	0	7	17
18.51-24.00	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	3
>24.00	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	5
TOTAL	3	0	0	0	0	0	0	2	6	6	2	1	0	3	0	8	31

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	1	0	3	0	0	4	4	4	2	0	0	0	0	0	18
3.51- 7.50	4	2	3	1	3	0	2	5	8	12	7	7	6	7	2	0	69
7.51-12.50	10	6	10	3	1	0	6	8	17	19	19	14	9	16	17	17	172
12.51-18.50	21	27	5	0	0	0	8	4	16	5	8	5	11	11	18	19	158
18.51-24.00	11	2	0	0	0	0	3	1	12	0	2	0	2	13	17	15	78
>24.00	4	0	0	0	0	1	0	0	1	0	1	2	0	11	13	21	54
TOTAL	50	37	19	4	7	1	19	22	58	40	39	28	28	58	67	72	549

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - OCT-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 10/ 1/ 2 - 12/31/ 2

*** OCT-DEC 2002 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	4
3.51- 7.50	0	2	1	1	0	1	1	1	6	6	10	6	5	2	3	3	48
7.51-12.50	9	9	4	1	2	6	14	4	12	26	12	5	5	6	6	16	137
12.51-18.50	3	10	3	0	0	6	18	12	19	13	15	4	6	10	20	25	164
18.51-24.00	6	0	0	0	0	5	9	6	10	0	11	7	3	9	13	12	91
>24.00	2	0	0	0	0	2	1	0	1	0	1	1	8	11	2	1	30
TOTAL	20	21	8	2	2	20	43	23	49	45	50	24	28	38	44	57	474

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	0	0	0	0	0	0	0	2	2	0	1	1	1	0	0	8
3.51- 7.50	1	0	1	0	1	0	3	4	3	2	2	1	0	1	1	3	23
7.51-12.50	7	3	3	0	0	9	3	12	11	19	13	4	4	13	5	7	113
12.51-18.50	3	0	0	0	0	2	1	8	18	17	4	3	13	17	11	0	97
18.51-24.00	0	0	0	0	0	0	1	2	5	0	3	4	5	11	4	1	36
>24.00	0	0	0	0	0	0	0	0	0	0	1	3	8	4	1	0	17
TOTAL	12	3	4	0	1	11	8	26	39	40	23	16	31	47	22	11	294

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - OCT-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 10/ 1/ 2 - 12/31/ 2

*** OCT-DEC 2002 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	2	0	0	1	0	0	1	0	0	1	2	0	1	3	1	2	14
3.51- 7.50	0	0	3	1	1	1	0	0	1	4	7	2	2	1	2	3	28
7.51-12.50	3	1	0	0	0	1	1	1	0	14	7	2	6	4	1	3	44
12.51-18.50	1	0	0	0	0	0	0	2	0	1	3	6	10	5	1	0	29
18.51-24.00	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	0	4
>24.00	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
TOTAL	6	1	3	2	1	2	2	3	2	20	19	15	19	13	5	8	121

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	3	0	1	1	3	0	1	4	7	7	5	2	3	4	1	2	44
3.51- 7.50	5	4	8	3	5	2	6	10	18	25	26	16	13	13	8	9	171
7.51-12.50	30	19	17	4	3	16	24	26	40	78	53	26	24	39	29	43	471
12.51-18.50	28	37	8	0	0	8	27	27	60	40	30	18	40	43	50	51	467
18.51-24.00	18	2	0	0	0	5	13	9	33	1	16	14	10	33	34	28	216
>24.00	7	0	0	0	0	3	1	0	2	0	3	8	16	29	16	23	108
TOTAL	91	62	34	8	11	34	72	76	160	151	133	84	106	161	138	156	1477

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - OCT-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 10/ 1/ 2 - 12/31/ 2

*** OCT-DEC 2002 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 1477

TOTAL NUMBER OF MISSING OBSERVATIONS: 731

PERCENT DATA RECOVERY FOR THIS PERIOD: 66.9 %

MEAN WIND SPEED FOR THIS PERIOD: 13.8 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.00	.54	2.10	37.17	32.09	19.91	8.19

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	6	0	0	0	0	2	0	0	0
C	3	0	0	0	0	0	0	2	6	6	2	1	0	3	0	8	0
D	50	37	19	4	7	1	19	22	58	40	39	28	28	58	67	72	0
E	20	21	8	2	2	20	43	23	49	45	50	24	28	38	44	57	0
F	12	3	4	0	1	11	8	26	39	40	23	16	31	47	22	11	0
G	6	1	3	2	1	2	2	3	2	20	19	15	19	13	5	8	0
TOTAL	91	62	34	8	11	34	72	76	160	151	133	84	106	161	138	156	0

JFDs of 100-Meter Wind vs. Delta T

July-December 2002

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 12/31/ 2

*** JUL-DEC 2002 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
18.51-24.00	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL	0	0	0	0	0	1	1	1	3	0	0	0	0	0	0	0	6

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
7.51-12.50	0	0	0	0	0	2	5	2	0	0	0	0	0	0	0	0	9
12.51-18.50	1	1	0	0	0	0	8	8	13	1	2	0	0	0	0	2	36
18.51-24.00	0	0	0	0	0	0	1	3	13	1	0	0	0	0	0	0	18
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL	1	1	0	0	0	2	14	13	27	2	2	0	0	2	0	2	66

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 12/31/ 2

*** JUL-DEC 2002 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	1	0	0	1	1	4	0	1	1	0	0	0	0	0	0	10
7.51-12.50	6	0	2	4	1	4	13	5	7	1	2	2	1	0	0	2	50
12.51-18.50	1	2	0	1	1	0	10	21	27	8	0	0	1	0	0	17	89
18.51-24.00	5	3	0	0	0	1	0	6	7	2	0	0	0	0	0	0	24
>24.00	1	0	0	0	0	0	0	1	1	0	0	0	0	3	0	1	7
TOTAL	14	6	2	5	3	6	27	33	43	12	2	2	2	3	0	20	180

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	2	1	0	3	0	1	4	5	5	3	0	1	1	0	1	28
3.51- 7.50	17	16	13	11	9	13	18	27	36	25	13	12	9	11	7	7	244
7.51-12.50	20	14	15	12	13	50	49	39	69	39	34	20	11	20	26	33	464
12.51-18.50	37	31	15	7	4	27	62	24	54	24	17	10	14	14	25	50	415
18.51-24.00	16	5	0	1	0	0	3	14	36	3	2	0	2	13	20	23	138
>24.00	4	0	0	0	0	1	2	4	8	0	1	2	0	11	13	22	68
TOTAL	95	68	44	31	29	91	135	112	208	96	70	44	37	70	91	136	1357

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 12/31/ 2

*** JUL-DEC 2002 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	5	0	1	0	1	1	2	1	1	1	0	1	0	14
3.51- 7.50	4	11	7	6	4	5	3	4	13	15	11	6	6	4	4	4	107
7.51-12.50	21	23	26	15	16	42	46	34	58	71	22	7	5	10	16	28	440
12.51-18.50	26	23	8	4	4	34	88	57	92	32	25	7	10	17	30	46	503
18.51-24.00	16	0	1	1	4	12	37	27	54	2	13	10	7	9	15	16	224
>24.00	3	0	0	0	0	2	2	1	18	0	2	1	8	12	2	1	52
TOTAL	70	57	42	31	28	96	176	124	236	122	74	32	37	52	68	95	1340

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	2	2	0	1	0	0	0	1	3	5	1	1	2	1	0	0	19
3.51- 7.50	4	3	6	3	4	5	4	6	8	6	4	4	1	4	4	5	71
7.51-12.50	13	11	8	2	5	21	19	29	25	42	22	7	5	14	11	12	246
12.51-18.50	4	3	0	0	0	5	10	22	25	21	8	4	13	18	15	6	154
18.51-24.00	2	0	0	0	0	1	4	5	7	1	3	6	5	11	4	1	50
>24.00	0	0	0	0	0	0	0	0	0	1	1	3	8	4	1	0	18
TOTAL	25	19	14	6	9	32	37	63	68	76	39	25	34	52	35	24	558

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 12/31/ 2

*** JUL-DEC 2002 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	2	1	1	2	1	0	2	0	2	1	3	0	1	4	2	3	25
3.51- 7.50	0	0	4	3	1	2	0	3	5	4	9	2	2	1	6	4	46
7.51-12.50	3	1	1	0	0	1	3	11	0	18	7	3	6	4	1	3	62
12.51-18.50	1	0	0	0	0	1	0	9	0	2	3	6	10	5	1	0	38
18.51-24.00	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	0	4
>24.00	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	3
TOTAL	6	2	6	5	2	4	5	23	9	25	22	16	19	14	10	10	178

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	5	5	2	8	4	1	3	6	11	13	8	2	5	6	3	4	86
3.51- 7.50	26	31	30	23	19	26	29	40	63	51	37	24	18	22	21	20	480
7.51-12.50	63	49	52	33	35	120	135	120	160	171	87	39	28	48	54	78	1272
12.51-18.50	70	60	23	12	9	67	179	142	211	88	55	27	48	54	71	121	1237
18.51-24.00	39	8	1	2	4	15	45	55	119	9	18	19	14	33	39	40	460
>24.00	8	0	0	0	0	3	4	6	30	1	4	8	16	30	16	24	150
TOTAL	211	153	108	78	71	232	395	369	594	333	209	119	129	193	204	287	3685

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 12/31/ 2

*** JUL-DEC 2002 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4416

TOTAL NUMBER OF VALID OBSERVATIONS: 3685

TOTAL NUMBER OF MISSING OBSERVATIONS: 731

PERCENT DATA RECOVERY FOR THIS PERIOD: 83.4 %

MEAN WIND SPEED FOR THIS PERIOD: 13.1 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.16	1.79	4.88	36.82	36.36	15.14	4.83

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	1	1	1	3	0	0	0	0	0	0	0	0
B	1	1	0	0	0	2	14	13	27	2	2	0	0	2	0	2	0
C	14	6	2	5	3	6	27	33	43	12	2	2	2	3	0	20	0
D	95	68	44	31	29	91	135	112	208	96	70	44	37	70	91	136	0
E	70	57	42	31	28	96	176	124	236	122	74	32	37	52	68	95	0
F	25	19	14	6	9	32	37	63	68	76	39	25	34	52	35	24	0
G	6	2	6	5	2	4	5	23	9	25	22	16	19	14	10	10	0
TOTAL	211	153	108	78	71	232	395	369	594	333	209	119	129	193	204	287	0

Stability Classes by Hour of Day

100-Meter Wind vs. Delta T

July-December 2002

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 12/31/ 2

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

			HOURS																					
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2	7	1	E	E	E	E	E	E	D	D	D	D	C	B	B	C	C	D	D	D	D	D	D	D	E	E
2	7	2	E	E	E	E	E	E	D	D	D	D	D	B	A	C	A	B	C	D	D	D	D	D	E	E
2	7	3	E	E	E	E	E	E	E	D	D	D	D	C	B	C	D	D	C	D	D	E	E	E	E	E
2	7	4	E	E	F	F	F	E	E	D	D	D	D	D	D	D	D	E	E	E	D	E	E	E	E	E
2	7	5	E	E	E	E	E	E	E	D	D	D	D	C	C	D	B	C	D	D	D	E	E	E	F	F
2	7	6	F	F	F	F	F	F	E	D	D	D	D	D	E	D	D	D	C	D	D	D	D	E	E	E
2	7	7	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	C	D	D	D	E	E	E	E	E
2	7	8	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	F	F	F
2	7	9	F	E	E	F	F	F	E	D	D	D	D	D	C	B	D	D	D	D	D	D	D	E	E	E
2	7	10	E	E	F	F	F	E	E	E	D	D	D	D	E	E	D	D	D	D	D	E	E	E	E	E
2	7	11	E	E	F	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
2	7	12	E	E	F	F	F	F	E	F	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E
2	7	13	E	E	E	E	E	E	E	D	D	D	D	C	C	C	D	D	D	D	D	E	E	F	F	F
2	7	14	F	F	F	F	F	F	E	E	D	D	D	C	C	D	D	D	D	D	D	E	E	F	F	F
2	7	15	F	F	F	F	F	F	E	D	D	D	D	B	B	B	C	D	D	D	D	E	E	F	F	F
2	7	16	F	E	E	E	E	E	E	D	D	D	D	B	B	B	C	D	D	D	D	E	E	E	E	E
2	7	17	E	E	E	E	E	E	E	D	D	D	D	C	B	B	C	D	C	D	D	E	E	E	E	E
2	7	18	E	E	E	E	E	E	E	D	D	D	D	D	D	D	C	C	D	D	D	E	E	E	E	E
2	7	19	E	E	E	E	E	E	E	D	D	D	D	D	B	B	B	C	D	D	D	D	E	E	E	E
2	7	20	F	F	E	F	F	F	E	D	D	D	D	D	A	C	B	C	D	D	D	E	E	E	E	E
2	7	21	E	E	E	E	E	E	D	D	D	D	D	C	B	C	C	C	D	E	D	E	E	E	E	E
2	7	22	E	E	E	E	E	E	D	D	D	D	D	D	D	B	C	C	D	D	D	E	E	F	G	G
2	7	23	F	E	E	E	E	E	D	D	D	D	D	C	C	C	D	D	D	D	E	E	F	F	E	E
2	7	24	E	E	E	E	E	F	E	D	D	D	D	C	B	A	B	C	C	D	D	E	E	E	E	E
2	7	25	E	E	E	E	E	E	E	D	D	D	C	B	D	D	D	D	D	D	D	E	E	E	E	E
2	7	26	F	F	E	E	E	F	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
2	7	27	E	E	E	E	E	E	E	E	D	D	D	D	D	C	D	D	E	E	E	F	F	E	E	E
2	7	28	E	E	E	E	F	F	F	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	F	E
2	7	29	E	E	E	E	E	E	E	D	D	D	D	D	C	D	D	D	D	D	D	E	F	F	F	E
2	7	30	E	E	E	E	F	F	E	D	D	D	D	D	C	C	C	C	C	D	D	E	E	E	E	E
2	7	31	E	E	E	E	E	E	E	D	D	D	D	D	D	C	C	D	D	E	E	E	E	E	E	E
2	8	1	E	E	E	E	E	E	E	D	D	D	D	D	C	C	C	D	D	D	D	E	E	E	E	E
2	8	2	E	E	E	E	E	E	D	D	D	D	D	D	D	C	D	D	D	D	D	E	E	E	E	E
2	8	3	E	E	E	E	E	E	E	D	D	D	D	B	C	C	D	D	D	D	E	E	E	E	E	E
2	8	4	E	E	E	E	F	F	F	D	D	D	D	D	D	D	D	C	D	D	D	E	E	E	E	E
2	8	5	E	E	E	E	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
2	8	6	E	D	D	D	E	E	D	D	D	D	D	C	A	B	C	B	D	D	D	D	D	D	D	D
2	8	7	D	D	D	D	D	D	D	D	D	D	D	B	B	C	C	C	D	D	D	E	E	E	E	E
2	8	8	E	F	E	E	E	E	D	D	D	D	D	B	C	B	C	C	D	D	D	E	E	E	E	E
2	8	9	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	F	F	G	G	G
2	8	10	G	F	F	F	F	F	F	E	E	D	D	D	D	D	C	D	D	D	D	E	E	F	E	E
2	8	11	E	E	E	E	F	E	E	E	D	D	D	D	D	C	B	D	D	D	E	E	E	E	E	E
2	8	12	E	E	E	E	E	E	F	E	D	D	D	C	C	C	C	D	D	E	E	D	E	E	D	D
2	8	13	E	F	F	F	F	F	E	E	E	E	D	D	D	D	C	D	D	D	D	E	E	E	E	F

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 12/31/ 2

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

			HOURS																							
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2	8	14	F	F	E	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	E	E	F	E	E	F
2	8	15	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
2	8	16	E	E	E	E	E	E	E	D	D	E	E	D	B	B	B	D	D	D	E	E	E	E	E	E
2	8	17	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
2	8	18	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	D	D
2	8	19	D	E	F	E	E	E	D	D	D	D	D	C	C	C	D	D	D	D	D	E	E	E	E	E
2	8	20	E	D	D	E	E	F	E	E	D	D	D	C	B	C	C	D	D	D	E	E	E	E	E	E
2	8	21	E	E	E	E	E	E	E	D	E	G	E	D	D	D	D	D	D	E	E	E	E	E	E	E
2	8	22	F	E	F	F	E	E	E	E	D	D	D	B	C	C	B	D	D	D	E	E	E	E	E	E
2	8	23	E	E	E	E	E	E	F	E	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F	F
2	8	24	F	F	F	F	F	E	E	E	E	E	D	D	D	D	D	D	E	E	E	E	F	F	F	F
2	8	25	F	F	G	G	F	F	F	E	D	D	D	D	D	D	D	D	D	E	F	F	G	G	G	G
2	8	26	G	G	G	F	G	G	F	E	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F	F
2	8	27	E	F	E	E	E	E	E	D	D	D	D	C	D	D	D	D	D	D	E	E	F	F	F	F
2	8	28	F	E	E	E	E	E	E	D	D	D	D	C	D	D	D	D	D	D	E	E	E	E	F	F
2	8	29	F	E	E	E	E	E	E	D	D	D	D	C	D	D	C	C	D	D	D	E	E	E	E	E
2	8	30	E	E	E	E	E	E	E	D	D	D	D	C	D	D	D	D	D	D	D	E	E	E	E	E
2	8	31	E	E	F	E	E	E	E	E	D	D	D	D	D	D	C	C	D	D	E	E	E	E	E	E
2	9	1	E	E	E	E	E	E	E	D	D	D	D	C	C	D	D	D	D	D	E	E	E	E	E	E
2	9	2	E	E	E	E	E	E	E	D	D	D	D	C	D	D	D	D	D	D	E	E	E	E	E	E
2	9	3	F	F	F	G	G	G	G	F	E	D	D	C	D	D	C	D	D	D	E	F	G	F	F	F
2	9	4	E	F	F	E	E	E	E	D	D	D	D	C	D	C	B	D	D	D	D	E	E	D	E	E
2	9	5	E	E	E	E	E	F	E	D	D	D	D	D	D	C	D	D	D	D	E	E	E	E	E	E
2	9	6	E	E	E	F	F	F	F	E	D	D	D	C	D	D	C	D	D	E	E	F	F	F	F	E
2	9	7	E	E	E	E	E	F	F	E	D	D	D	C	C	C	B	B	D	D	E	F	F	F	E	E
2	9	8	F	F	F	E	E	E	E	D	D	D	C	B	B	B	B	D	D	D	E	E	F	G	G	F
2	9	9	F	F	F	F	F	F	F	E	D	D	D	C	C	C	B	C	D	D	E	F	F	G	G	G
2	9	10	F	F	F	E	E	D	D	D	D	D	D	D	D	D	C	C	D	D	E	E	F	E	E	F
2	9	11	E	E	E	E	F	F	F	E	D	D	D	C	D	D	C	C	D	E	E	F	F	F	F	F
2	9	12	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
2	9	13	D	D	E	E	E	E	D	E	E	D	E	E	E	D	D	E	E	E	E	F	F	E	E	E
2	9	14	E	E	E	F	E	E	F	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E
2	9	15	E	E	E	E	E	E	E	D	D	D	D	D	D	D	C	D	D	D	F	F	G	G	G	G
2	9	16	G	G	G	G	G	G	G	F	E	D	D	D	C	D	A	C	D	D	E	F	F	G	G	G
2	9	17	G	F	F	F	F	F	F	E	D	D	C	B	C	C	D	D	D	D	E	E	E	E	E	E
2	9	18	E	E	E	E	E	E	E	E	D	D	D	D	D	C	D	D	D	D	E	E	F	F	F	F
2	9	19	E	E	F	E	E	E	E	E	D	D	D	D	D	D	D	E	D	E	F	F	F	F	F	F
2	9	20	E	E	E	E	E	E	E	E	D	D	D	D	C	C	C	D	D	D	F	G	G	F	F	F
2	9	21	F	G	F	E	E	E	E	D	D	D	D	C	C	C	C	C	D	D	D	D	E	E	E	E
2	9	22	E	E	E	E	E	E	E	D	D	D	D	C	C	C	C	D	D	D	F	G	G	G	G	G
2	9	23	F	F	F	F	F	F	F	E	D	D	C	C	C	B	C	D	D	D	E	E	E	E	E	E
2	9	24	E	E	E	E	D	E	E	D	D	D	C	C	C	B	B	C	D	D	E	E	E	E	E	E
2	9	25	E	E	E	E	E	E	E	D	D	C	C	B	B	B	B	C	D	D	E	F	F	F	G	F
2	9	26	F	F	G	F	F	G	F	E	E	D	D	C	D	C	B	D	D	D	D	D	E	E	D	D
2	9	27	E	E	F	F	F	E	E	F	F	F	E	E	D	D	D	D	D	D	D	E	E	E	E	E

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 12/31/ 2

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

			HOURS																					
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2	9	28	E	E	E	E	E	E	E	E	E	D	D	C	D	D	D	D	D	E	F	G	G	G	F	E
2	9	29	F	F	E	E	E	E	E	E	E	D	D	C	D	C	D	D	D	E	E	E	E	E	E	E
2	9	30	E	E	E	E	E	E	E	D	D	D	C	B	B	B	C	D	D	E	E	E	E	E	E	E
2	10	1	E	F	F	F	F	F	E	E	E	D	D	B	C	B	B	D	D	E	E	F	G	F	F	E
2	10	2	E	E	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F	F	F	G
2	10	4	G	G	G	F	E	E	E	D	D	D	D	D	D	D	D	D	D	E	F	F	G	G	G	G
2	10	5	G	G	G	G	G	F	F	F	D	D	C	C	C	B	B	D	D	E	E	E	F	E	E	E
2	10	6	E	E	E	F	F	E	F	E	D	D	D	C	C	C	D	D	D	D	E	E	E	E	E	F
2	10	7	F	F	G	F	F	F	F	F	D	D	D	D	D	C	B	D	D	D	E	E	E	E	E	E
2	10	8	E	F	F	F	F	F	F	F	D	D	C	C	-	-	-	-	-	-	-	-	-	-	-	-
2	10	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	10	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	D	D	D	E	E	E	E	E	E
2	10	12	E	E	E	E	E	D	E	D	D	D	D	C	D	D	D	D	D	D	E	E	E	E	E	E
2	10	13	F	F	F	F	G	G	G	F	E	D	D	D	C	D	D	D	D	E	F	F	F	F	F	F
2	10	14	F	F	F	E	E	E	E	E	D	D	C	C	C	C	C	D	D	E	F	F	F	E	E	E
2	10	15	E	E	E	E	E	E	E	E	D	D	C	C	C	C	C	D	D	E	E	F	F	F	G	G
2	10	16	G	G	F	E	E	E	E	E	D	D	D	D	E	E	E	E	E	E	E	E	E	E	E	E
2	10	17	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	F	F	F	F	F	F
2	10	18	F	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
2	10	19	E	E	E	E	E	E	E	E	D	D	C	D	D	D	D	D	D	E	E	F	E	E	E	F
2	10	20	F	E	E	F	F	F	F	F	E	D	D	D	C	C	D	D	D	E	E	E	E	E	E	E
2	10	21	E	E	E	E	E	F	F	F	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D
2	10	22	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
2	10	23	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	-	-	-
2	10	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	10	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	10	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	10	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	10	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	10	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	10	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	10	31	-	-	-	-	-	-	-	-	-	-	-	D	D	D	-	D	D	D	D	E	E	E	E	E
2	11	1	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F	F	F
2	11	2	F	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	E	E	-	D	E	E
2	11	3	E	E	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	E	F	F	F	F	F	E
2	11	4	E	E	E	E	E	F	F	F	E	D	-	D	D	D	D	D	D	E	E	E	D	D	E	E
2	11	5	E	E	E	E	E	F	F	F	F	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D
2	11	6	D	D	E	E	E	F	-	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	11	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	11	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	11	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	11	10	-	-	-	-	-	E	D	-	-	-	-	D	D	D	-	-	-	-	-	-	-	-	-	-
2	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 12/31/ 2

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

			HOURS																							
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2	11	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	11	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	11	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	11	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	11	16	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	E	F	E	E	E	E	E
2	11	17	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
2	11	18	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	G	G	G	G	G	G
2	11	19	G	G	G	F	F	F	F	F	E	E	D	D	D	-	-	-	E	E	F	F	G	G	G	G
2	11	20	G	G	G	G	F	F	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	F
2	11	21	F	F	G	G	F	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E
2	11	22	E	F	F	E	F	E	E	F	E	D	D	D	C	D	D	D	D	E	E	E	E	E	E	E
2	11	23	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	F	F	F	F	F	-
2	11	24	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	-	-	-	-	-	-	-
2	11	25	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	D	-	-	-	-	-	-
2	11	26	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	-	-	-	-	-	-	-
2	11	27	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	E	E	E	E	E	E	F	E
2	11	28	F	F	G	F	E	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	F
2	11	29	E	E	F	E	E	E	E	F	F	D	D	D	D	D	D	D	D	E	E	E	E	E	E	D
2	11	30	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F	G	G
2	12	1	G	F	F	F	F	F	F	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
2	12	2	E	E	E	E	E	E	E	F	D	D	D	D	C	C	D	D	D	-	-	-	-	-	-	-
2	12	3	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	D	D	-	-	-	-	-	-	-
2	12	4	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	-	-	-	-	-	-	-
2	12	5	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	E	F	F	F	F	F	F
2	12	6	F	F	F	F	F	E	E	F	E	D	D	D	D	D	D	D	E	E	E	E	E	E	F	F
2	12	7	F	F	F	E	E	F	F	G	F	E	D	D	D	D	D	D	E	F	G	G	G	G	G	G
2	12	8	G	G	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
2	12	9	E	E	E	F	F	F	F	F	F	D	D	D	D	D	D	D	E	E	F	F	F	F	F	F
2	12	10	F	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	-	-	-	-	-	-
2	12	11	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	-	-	-	-	-	-	-
2	12	12	-	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	E	E	E	F	F	F	G
2	12	13	F	G	F	F	G	G	F	E	E	D	D	D	D	D	D	D	E	F	G	G	G	G	G	-
2	12	14	G	G	G	G	G	G	G	G	G	E	D	D	D	D	D	D	E	F	F	G	G	G	G	F
2	12	15	F	G	G	G	G	G	G	G	G	F	E	D	D	D	D	E	E	F	F	F	F	E	E	E
2	12	16	F	G	G	F	F	F	F	F	F	E	D	D	D	D	D	D	E	-	-	-	-	-	-	-
2	12	17	-	-	-	-	-	-	-	-	-	D	E	E	E	E	E	E	E	E	F	F	F	F	E	E
2	12	18	E	F	F	F	F	F	E	E	E	D	D	E	D	D	D	D	D	E	F	G	G	G	F	E
2	12	19	E	F	F	F	F	F	F	F	F	D	D	D	D	D	D	D	D	E	E	E	F	F	E	E
2	12	20	E	E	E	E	E	E	E	E	E	-	D	D	D	D	D	D	D	E	F	F	F	F	F	F
2	12	21	E	F	F	F	F	F	G	G	F	E	D	D	D	D	D	D	D	D	D	E	E	E	E	F
2	12	22	F	F	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	F	F	F	G	F	F
2	12	23	F	F	F	F	F	E	E	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	12	24	-	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	-	-	-	-	-	-	-
2	12	25	-	-	-	-	-	E	E	D	D	D	D	B	B	D	D	D	D	F	F	F	G	G	G	G
2	12	26	G	G	G	G	G	G	G	G	G	G	E	D	D	D	D	D	E	E	E	E	E	E	E	F

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T - JUL-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 7/ 1/ 2 - 12/31/ 2

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

		HOURS																							
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2	12	27	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F	F	F	F
2	12	28	G	G	G	E	E	E	E	E	F	E	D	D	D	D	D	D	E	F	F	F	F	F	F	F
2	12	29	F	F	F	F	G	F	F	F	F	E	D	D	D	D	D	D	E	E	E	F	F	F	F	F
2	12	30	F	F	F	F	F	E	F	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	F	G
2	12	31	G	G	G	G	G	G	G	G	G	G	E	D	D	D	D	D	D	E	F	F	F	F	F	E

JFDs of 100-Meter Wind vs. Delta T

January-December 2002

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T JAN-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 12/31/ 2

*** JAN-DEC 2002 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
12.51-18.50	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	5
18.51-24.00	2	0	0	0	0	1	1	3	7	0	0	0	0	0	0	0	14
>24.00	0	0	0	0	0	0	0	6	13	0	0	0	0	0	0	2	21
TOTAL	2	0	0	0	0	1	5	10	23	0	0	0	0	0	0	2	43

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
7.51-12.50	0	0	0	0	0	2	6	2	0	1	0	0	0	0	0	0	11
12.51-18.50	2	1	0	0	0	0	11	15	19	1	4	0	0	0	0	8	61
18.51-24.00	2	0	0	0	0	1	6	8	27	1	2	0	0	0	0	1	48
>24.00	0	0	0	0	0	0	0	5	19	0	0	0	0	0	0	12	36
TOTAL	4	1	0	0	0	3	23	30	65	3	6	0	0	2	1	21	159

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T JAN-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 12/31/ 2

*** JAN-DEC 2002 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	2	1	1	0	2	1	5	0	2	2	0	0	0	0	0	2	18
7.51-12.50	8	0	3	4	1	4	13	10	15	4	6	4	5	3	0	6	86
12.51-18.50	4	3	1	1	2	1	14	30	39	12	3	0	1	2	1	23	137
18.51-24.00	14	4	1	1	0	4	3	11	21	3	2	2	0	4	1	10	81
>24.00	2	0	0	0	0	0	4	14	12	0	0	1	2	3	5	12	55
TOTAL	30	8	6	6	5	10	39	65	89	21	11	7	8	12	7	53	377

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	3	1	1	3	1	1	9	5	8	7	2	1	1	0	1	45
3.51- 7.50	35	24	23	15	18	27	27	34	46	52	41	23	15	19	15	20	434
7.51-12.50	57	31	31	25	20	65	66	57	96	106	73	46	27	35	68	87	890
12.51-18.50	103	58	40	14	14	48	86	65	110	69	42	36	25	45	96	121	972
18.51-24.00	65	33	24	1	4	4	20	62	94	16	10	4	6	32	94	79	548
>24.00	11	7	0	0	0	6	10	37	73	0	3	4	6	33	60	92	342
TOTAL	272	156	119	56	59	151	210	264	424	251	176	115	80	165	333	400	3231

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T JAN-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 12/31/ 2

*** JAN-DEC 2002 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	2	0	1	5	1	1	1	1	3	3	3	2	1	0	1	0	25
3.51- 7.50	11	17	11	7	9	15	8	7	18	22	18	7	6	10	8	6	180
7.51-12.50	52	39	38	24	28	54	52	48	83	145	47	14	17	28	48	61	778
12.51-18.50	72	36	21	18	20	65	120	116	201	86	50	17	25	37	64	125	1073
18.51-24.00	31	3	1	8	7	21	45	80	123	12	15	19	16	50	48	34	513
>24.00	9	1	0	0	0	3	3	29	42	2	2	5	9	22	6	8	141
TOTAL	177	96	72	62	65	159	229	281	470	270	135	64	74	147	175	234	2710

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	3	2	0	1	0	0	0	1	3	5	1	1	2	2	1	0	22
3.51- 7.50	9	7	10	4	4	5	9	12	15	15	12	5	4	6	7	6	130
7.51-12.50	25	23	15	7	7	27	30	44	41	69	36	14	10	26	25	23	422
12.51-18.50	13	4	2	5	1	16	22	53	46	44	14	15	27	25	27	15	329
18.51-24.00	4	0	0	0	0	2	4	6	13	4	8	14	7	14	8	8	92
>24.00	0	0	0	0	0	0	5	1	0	1	2	4	14	10	2	10	49
TOTAL	54	36	27	17	12	50	70	117	118	138	73	53	64	83	70	62	1044

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T JAN-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 12/31/ 2

*** JAN-DEC 2002 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	3	2	1	2	3	1	2	0	2	1	3	0	1	4	3	3	31
3.51- 7.50	1	6	10	6	6	3	0	6	8	13	13	5	4	2	9	6	98
7.51-12.50	6	3	3	0	0	3	4	12	5	27	10	5	9	7	6	8	108
12.51-18.50	2	0	0	0	0	1	3	11	0	3	6	18	18	12	3	1	78
18.51-24.00	1	0	0	0	0	0	2	1	1	0	4	10	0	1	0	0	20
>24.00	0	0	0	0	0	0	3	0	1	0	0	4	1	0	0	1	10
TOTAL	13	11	14	8	9	8	14	30	17	44	36	42	33	26	21	19	345

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	9	7	3	9	7	3	4	11	13	17	14	5	5	7	5	4	123
3.51- 7.50	58	55	55	32	39	51	49	59	90	104	84	40	29	39	40	40	864
7.51-12.50	148	96	90	60	56	155	171	173	242	352	172	83	68	99	147	185	2297
12.51-18.50	196	102	64	38	37	131	260	291	415	215	119	86	96	121	191	293	2655
18.51-24.00	119	40	26	10	11	33	81	171	286	36	41	49	29	101	151	132	1316
>24.00	22	8	0	0	0	9	25	92	160	3	7	18	32	68	73	137	654
TOTAL	552	308	238	149	150	382	590	797	1206	727	437	281	259	435	607	791	7909

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 100M DELTA T JAN-DEC 2002
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/ 2 - 12/31/ 2

*** JAN-DEC 2002 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 8760

TOTAL NUMBER OF VALID OBSERVATIONS: 7909

TOTAL NUMBER OF MISSING OBSERVATIONS: 851

PERCENT DATA RECOVERY FOR THIS PERIOD: 90.3 %

MEAN WIND SPEED FOR THIS PERIOD: 14.6 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.54	2.01	4.77	40.85	34.26	13.20	4.36

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	2	0	0	0	0	1	5	10	23	0	0	0	0	0	0	2	0
B	4	1	0	0	0	3	23	30	65	3	6	0	0	2	1	21	0
C	30	8	6	6	5	10	39	65	89	21	11	7	8	12	7	53	0
D	272	156	119	56	59	151	210	264	424	251	176	115	80	165	333	400	0
E	177	96	72	62	65	159	229	281	470	270	135	64	74	147	175	234	0
F	54	36	27	17	12	50	70	117	118	138	73	53	64	83	70	62	0
G	13	11	14	8	9	8	14	30	17	44	36	42	33	26	21	19	0
TOTAL	552	308	238	149	150	382	590	797	1206	727	437	281	259	435	607	791	0

ATMOSPHERIC DIFFUSION ESTIMATES

The tables of atmospheric diffusion estimates in this section were generated using the computer code XOQDOQ. Data are given for 22 distances and 16 compass points (directions from site) centered on the Cooper Nuclear Station. Tables are presented for the ground-level (vent) and elevated (stack) release options separately, and for the following time periods in 2002: January-March, April-June, January-June, July-September, October-December, July-December, and January-December.

Atmospheric Diffusion Estimates

Ground Level Releases

January-March 2002

VENTS GROUND LEVEL RELEASES - JAN-MAR 2002
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.913E-05	1.004E-05	5.394E-06	2.695E-06	1.071E-06	5.758E-07	3.628E-07	2.520E-07	1.869E-07	1.453E-07	1.169E-07
SSW	1.782E-05	5.865E-06	3.112E-06	1.556E-06	6.307E-07	3.436E-07	2.188E-07	1.533E-07	1.145E-07	8.957E-08	7.249E-08
SW	7.266E-06	2.568E-06	1.371E-06	6.804E-07	2.679E-07	1.430E-07	8.961E-08	6.197E-08	4.579E-08	3.548E-08	2.847E-08
WSW	1.131E-05	3.667E-06	1.908E-06	9.461E-07	3.890E-07	2.141E-07	1.374E-07	9.689E-08	7.277E-08	5.718E-08	4.647E-08
W	5.791E-06	1.857E-06	9.660E-07	4.805E-07	1.980E-07	1.091E-07	7.006E-08	4.943E-08	3.714E-08	2.919E-08	2.372E-08
WNW	1.151E-05	3.800E-06	1.971E-06	9.728E-07	3.965E-07	2.170E-07	1.386E-07	9.744E-08	7.298E-08	5.721E-08	4.640E-08
NW	1.969E-05	6.110E-06	3.093E-06	1.523E-06	6.360E-07	3.537E-07	2.288E-07	1.623E-07	1.225E-07	9.671E-08	7.889E-08
NNW	6.499E-05	1.970E-05	1.002E-05	4.973E-06	2.112E-06	1.187E-06	7.740E-07	5.524E-07	4.191E-07	3.320E-07	2.718E-07
N	7.848E-05	2.422E-05	1.289E-05	6.533E-06	2.724E-06	1.512E-06	9.765E-07	6.918E-07	5.215E-07	4.110E-07	3.349E-07
NNE	5.444E-05	1.709E-05	9.127E-06	4.616E-06	1.895E-06	1.041E-06	6.675E-07	4.701E-07	3.527E-07	2.768E-07	2.248E-07
NE	3.514E-05	1.131E-05	6.101E-06	3.092E-06	1.261E-06	6.891E-07	4.399E-07	3.087E-07	2.310E-07	1.809E-07	1.465E-07
ENE	2.840E-05	9.091E-06	4.782E-06	2.391E-06	9.838E-07	5.417E-07	3.478E-07	2.453E-07	1.843E-07	1.448E-07	1.177E-07
E	2.072E-05	6.580E-06	3.586E-06	1.829E-06	7.466E-07	4.086E-07	2.611E-07	1.834E-07	1.373E-07	1.076E-07	8.719E-08
ESE	2.589E-05	8.582E-06	4.587E-06	2.300E-06	9.364E-07	5.118E-07	3.267E-07	2.294E-07	1.716E-07	1.344E-07	1.089E-07
SE	3.170E-05	1.094E-05	5.957E-06	2.996E-06	1.187E-06	6.366E-07	4.005E-07	2.778E-07	2.058E-07	1.598E-07	1.285E-07
SSE	3.790E-05	1.287E-05	6.979E-06	3.511E-06	1.390E-06	7.451E-07	4.685E-07	3.248E-07	2.405E-07	1.867E-07	1.501E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	9.672E-08	4.957E-08	3.206E-08	1.834E-08	1.239E-08	9.158E-09	7.165E-09	5.827E-09	4.876E-09	4.169E-09	3.625E-09
SSW	6.026E-08	3.147E-08	2.063E-08	1.203E-08	8.240E-09	6.158E-09	4.860E-09	3.983E-09	3.354E-09	2.884E-09	2.520E-09
SW	2.349E-08	1.191E-08	7.650E-09	4.331E-09	2.905E-09	2.136E-09	1.664E-09	1.348E-09	1.124E-09	9.586E-10	8.315E-10
WSW	3.876E-08	2.052E-08	1.358E-08	8.021E-09	5.543E-09	4.170E-09	3.309E-09	2.724E-09	2.303E-09	1.987E-09	1.742E-09
W	1.979E-08	1.048E-08	6.935E-09	4.096E-09	2.830E-09	2.129E-09	1.689E-09	1.390E-09	1.175E-09	1.014E-09	8.890E-10
WNW	3.864E-08	2.033E-08	1.340E-08	7.873E-09	5.421E-09	4.068E-09	3.222E-09	2.648E-09	2.235E-09	1.926E-09	1.687E-09
NW	6.603E-08	3.542E-08	2.365E-08	1.415E-08	9.865E-09	7.473E-09	5.963E-09	4.931E-09	4.186E-09	3.624E-09	3.187E-09
NNW	2.281E-07	1.236E-07	8.307E-08	5.008E-08	3.508E-08	2.666E-08	2.133E-08	1.767E-08	1.503E-08	1.303E-08	1.147E-08
N	2.800E-07	1.494E-07	9.934E-08	5.904E-08	4.095E-08	3.088E-08	2.455E-08	2.024E-08	1.713E-08	1.479E-08	1.298E-08
NNE	1.873E-07	9.886E-08	6.527E-08	3.844E-08	2.652E-08	1.993E-08	1.580E-08	1.299E-08	1.097E-08	9.456E-09	8.282E-09
NE	1.219E-07	6.383E-08	4.191E-08	2.448E-08	1.678E-08	1.255E-08	9.904E-09	8.116E-09	6.834E-09	5.876E-09	5.135E-09
ENE	9.820E-08	5.200E-08	3.442E-08	2.034E-08	1.406E-08	1.059E-08	8.402E-09	6.917E-09	5.848E-09	5.046E-09	4.423E-09
E	7.257E-08	3.809E-08	2.504E-08	1.466E-08	1.007E-08	7.541E-09	5.959E-09	4.888E-09	4.119E-09	3.543E-09	3.097E-09
ESE	9.066E-08	4.754E-08	3.125E-08	1.828E-08	1.255E-08	9.386E-09	7.415E-09	6.080E-09	5.122E-09	4.406E-09	3.852E-09
SE	1.062E-07	5.429E-08	3.504E-08	1.999E-08	1.348E-08	9.953E-09	7.777E-09	6.318E-09	5.281E-09	4.510E-09	3.918E-09
SSE	1.240E-07	6.331E-08	4.084E-08	2.328E-08	1.570E-08	1.159E-08	9.056E-09	7.358E-09	6.151E-09	5.254E-09	4.565E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	5.228E-06	1.212E-06	3.753E-07	1.897E-07	1.179E-07	5.226E-08	1.874E-08	9.222E-09	5.847E-09	4.177E-09
SSW	3.033E-06	7.088E-07	2.259E-07	1.161E-07	7.302E-08	3.305E-08	1.226E-08	6.194E-09	3.994E-09	2.888E-09
SW	1.330E-06	3.040E-07	9.278E-08	4.649E-08	2.870E-08	1.259E-08	4.435E-09	2.152E-09	1.353E-09	9.607E-10
WSW	1.871E-06	4.351E-07	1.416E-07	7.372E-08	4.679E-08	2.149E-08	8.155E-09	4.192E-09	2.731E-09	1.990E-09
W	9.483E-07	2.213E-07	7.222E-08	3.762E-08	2.388E-08	1.097E-08	4.164E-09	2.140E-09	1.394E-09	1.016E-09
WNW	1.934E-06	4.448E-07	1.430E-07	7.396E-08	4.673E-08	2.132E-08	8.011E-09	4.090E-09	2.655E-09	1.929E-09
NW	3.066E-06	7.076E-07	2.355E-07	1.241E-07	7.941E-08	3.699E-08	1.436E-08	7.507E-09	4.942E-09	3.628E-09
NNW	9.927E-06	2.337E-06	7.956E-07	4.240E-07	2.735E-07	1.288E-07	5.075E-08	2.678E-08	1.771E-08	1.304E-08
N	1.258E-05	3.032E-06	1.006E-06	5.281E-07	3.371E-07	1.562E-07	5.995E-08	3.104E-08	2.029E-08	1.481E-08
NNE	8.892E-06	2.120E-06	6.882E-07	3.573E-07	2.263E-07	1.036E-07	3.910E-08	2.003E-08	1.302E-08	9.470E-09
NE	5.922E-06	1.414E-06	4.539E-07	2.341E-07	1.476E-07	6.699E-08	2.493E-08	1.262E-08	8.139E-09	5.885E-09
ENE	4.677E-06	1.100E-06	3.585E-07	1.867E-07	1.185E-07	5.445E-08	2.068E-08	1.064E-08	6.934E-09	5.053E-09
E	3.470E-06	8.370E-07	2.693E-07	1.391E-07	8.781E-08	3.995E-08	1.493E-08	7.583E-09	4.901E-09	3.548E-09
ESE	4.458E-06	1.051E-06	3.371E-07	1.740E-07	1.097E-07	4.988E-08	1.862E-08	9.440E-09	6.096E-09	4.413E-09
SE	5.749E-06	1.344E-06	4.144E-07	2.089E-07	1.295E-07	5.728E-08	2.044E-08	1.002E-08	6.340E-09	4.519E-09
SSE	6.746E-06	1.575E-06	4.848E-07	2.441E-07	1.513E-07	6.681E-08	2.381E-08	1.167E-08	7.383E-09	5.264E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 2002
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.911E-05	1.003E-05	5.382E-06	2.687E-06	1.067E-06	5.723E-07	3.600E-07	2.497E-07	1.849E-07	1.435E-07	1.153E-07
SSW	1.780E-05	5.854E-06	3.103E-06	1.550E-06	6.269E-07	3.408E-07	2.165E-07	1.514E-07	1.129E-07	8.808E-08	7.113E-08
SW	7.261E-06	2.565E-06	1.368E-06	6.784E-07	2.667E-07	1.421E-07	8.894E-08	6.141E-08	4.531E-08	3.504E-08	2.808E-08
WSW	1.130E-05	3.659E-06	1.901E-06	9.419E-07	3.864E-07	2.122E-07	1.358E-07	9.556E-08	7.161E-08	5.613E-08	4.551E-08
W	5.784E-06	1.853E-06	9.629E-07	4.784E-07	1.967E-07	1.081E-07	6.928E-08	4.876E-08	3.655E-08	2.866E-08	2.324E-08
WNW	1.150E-05	3.792E-06	1.966E-06	9.690E-07	3.941E-07	2.152E-07	1.372E-07	9.623E-08	7.192E-08	5.626E-08	4.553E-08
NW	1.967E-05	6.096E-06	3.083E-06	1.516E-06	6.316E-07	3.504E-07	2.261E-07	1.600E-07	1.205E-07	9.487E-08	7.720E-08
NNW	6.491E-05	1.965E-05	9.988E-06	4.952E-06	2.099E-06	1.177E-06	7.655E-07	5.452E-07	4.126E-07	3.262E-07	2.664E-07
N	7.840E-05	2.417E-05	1.285E-05	6.509E-06	2.709E-06	1.501E-06	9.671E-07	6.837E-07	5.144E-07	4.046E-07	3.290E-07
NNE	5.439E-05	1.706E-05	9.104E-06	4.600E-06	1.885E-06	1.034E-06	6.616E-07	4.650E-07	3.483E-07	2.729E-07	2.212E-07
NE	3.511E-05	1.129E-05	6.084E-06	3.080E-06	1.253E-06	6.837E-07	4.355E-07	3.051E-07	2.278E-07	1.780E-07	1.439E-07
ENE	2.837E-05	9.073E-06	4.768E-06	2.381E-06	9.779E-07	5.374E-07	3.443E-07	2.423E-07	1.817E-07	1.425E-07	1.155E-07
E	2.070E-05	6.568E-06	3.576E-06	1.822E-06	7.424E-07	4.055E-07	2.585E-07	1.813E-07	1.354E-07	1.059E-07	8.567E-08
ESE	2.586E-05	8.567E-06	4.575E-06	2.293E-06	9.315E-07	5.082E-07	3.238E-07	2.269E-07	1.695E-07	1.325E-07	1.072E-07
SE	3.168E-05	1.093E-05	5.946E-06	2.988E-06	1.183E-06	6.333E-07	3.978E-07	2.756E-07	2.039E-07	1.581E-07	1.270E-07
SSE	3.787E-05	1.285E-05	6.965E-06	3.502E-06	1.385E-06	7.411E-07	4.652E-07	3.221E-07	2.382E-07	1.846E-07	1.482E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	9.520E-08	4.838E-08	3.103E-08	1.745E-08	1.159E-08	8.417E-09	6.471E-09	5.172E-09	4.253E-09	3.573E-09	3.053E-09
SSW	5.899E-08	3.047E-08	1.975E-08	1.126E-08	7.540E-09	5.507E-09	4.248E-09	3.402E-09	2.799E-09	2.352E-09	2.009E-09
SW	2.313E-08	1.163E-08	7.408E-09	4.124E-09	2.718E-09	1.964E-09	1.503E-09	1.197E-09	9.809E-10	8.216E-10	7.001E-10
WSW	3.787E-08	1.981E-08	1.295E-08	7.467E-09	5.036E-09	3.697E-09	2.863E-09	2.299E-09	1.897E-09	1.597E-09	1.366E-09
W	1.934E-08	1.012E-08	6.614E-09	3.812E-09	2.569E-09	1.885E-09	1.459E-09	1.171E-09	9.653E-10	8.121E-10	6.941E-10
WNW	3.783E-08	1.968E-08	1.283E-08	7.367E-09	4.958E-09	3.635E-09	2.813E-09	2.259E-09	1.863E-09	1.568E-09	1.342E-09
NW	6.446E-08	3.415E-08	2.253E-08	1.314E-08	8.936E-09	6.601E-09	5.137E-09	4.143E-09	3.429E-09	2.895E-09	2.483E-09
NNW	2.231E-07	1.195E-07	7.938E-08	4.676E-08	3.200E-08	2.376E-08	1.857E-08	1.503E-08	1.248E-08	1.057E-08	9.094E-09
N	2.745E-07	1.450E-07	9.544E-08	5.557E-08	3.776E-08	2.790E-08	2.173E-08	1.755E-08	1.455E-08	1.231E-08	1.059E-08
NNE	1.840E-07	9.618E-08	6.291E-08	3.636E-08	2.462E-08	1.815E-08	1.412E-08	1.140E-08	9.447E-09	7.993E-09	6.871E-09
NE	1.195E-07	6.192E-08	4.024E-08	2.302E-08	1.546E-08	1.132E-08	8.753E-09	7.026E-09	5.796E-09	4.882E-09	4.179E-09
ENE	9.619E-08	5.040E-08	3.301E-08	1.909E-08	1.292E-08	9.522E-09	7.399E-09	5.964E-09	4.936E-09	4.170E-09	3.579E-09
E	7.116E-08	3.697E-08	2.407E-08	1.381E-08	9.294E-09	6.819E-09	5.281E-09	4.245E-09	3.506E-09	2.956E-09	2.533E-09
ESE	8.900E-08	4.622E-08	3.009E-08	1.726E-08	1.161E-08	8.513E-09	6.591E-09	5.297E-09	4.374E-09	3.687E-09	3.160E-09
SE	1.048E-07	5.317E-08	3.407E-08	1.915E-08	1.273E-08	9.255E-09	7.124E-09	5.701E-09	4.694E-09	3.949E-09	3.380E-09
SSE	1.223E-07	6.194E-08	3.964E-08	2.225E-08	1.477E-08	1.073E-08	8.256E-09	6.602E-09	5.432E-09	4.567E-09	3.906E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	5.217E-06	1.207E-06	3.725E-07	1.876E-07	1.162E-07	5.107E-08	1.786E-08	8.484E-09	5.193E-09	3.581E-09
SSW	3.024E-06	7.049E-07	2.236E-07	1.144E-07	7.166E-08	3.205E-08	1.149E-08	5.546E-09	3.414E-09	2.358E-09
SW	1.328E-06	3.028E-07	9.211E-08	4.600E-08	2.831E-08	1.231E-08	4.229E-09	1.981E-09	1.202E-09	8.238E-10
WSW	1.865E-06	4.324E-07	1.401E-07	7.256E-08	4.583E-08	2.077E-08	7.605E-09	3.720E-09	2.307E-09	1.600E-09
W	9.454E-07	2.199E-07	7.143E-08	3.703E-08	2.340E-08	1.061E-08	3.882E-09	1.897E-09	1.175E-09	8.138E-10
WNW	1.929E-06	4.423E-07	1.416E-07	7.290E-08	4.586E-08	2.067E-08	7.510E-09	3.659E-09	2.266E-09	1.572E-09
NW	3.056E-06	7.032E-07	2.328E-07	1.220E-07	7.772E-08	3.572E-08	1.336E-08	6.638E-09	4.155E-09	2.900E-09
NNW	9.897E-06	2.323E-06	7.871E-07	4.176E-07	2.681E-07	1.247E-07	4.745E-08	2.388E-08	1.507E-08	1.059E-08
N	1.255E-05	3.016E-06	9.960E-07	5.209E-07	3.312E-07	1.517E-07	5.651E-08	2.806E-08	1.761E-08	1.234E-08
NNE	8.871E-06	2.110E-06	6.823E-07	3.529E-07	2.227E-07	1.009E-07	3.704E-08	1.827E-08	1.143E-08	8.008E-09
NE	5.906E-06	1.406E-06	4.495E-07	2.309E-07	1.450E-07	6.508E-08	2.349E-08	1.140E-08	7.051E-09	4.892E-09
ENE	4.664E-06	1.094E-06	3.550E-07	1.841E-07	1.163E-07	5.285E-08	1.944E-08	9.581E-09	5.982E-09	4.178E-09
E	3.461E-06	8.326E-07	2.668E-07	1.373E-07	8.629E-08	3.883E-08	1.408E-08	6.864E-09	4.259E-09	2.962E-09
ESE	4.448E-06	1.046E-06	3.342E-07	1.718E-07	1.079E-07	4.856E-08	1.760E-08	8.569E-09	5.315E-09	3.695E-09
SE	5.739E-06	1.340E-06	4.117E-07	2.069E-07	1.280E-07	5.615E-08	1.961E-08	9.328E-09	5.724E-09	3.959E-09
SSE	6.734E-06	1.569E-06	4.815E-07	2.418E-07	1.494E-07	6.544E-08	2.279E-08	1.082E-08	6.629E-09	4.578E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 2002
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.756E-05	9.167E-06	4.804E-06	2.357E-06	9.087E-07	4.759E-07	2.932E-07	1.997E-07	1.454E-07	1.111E-07	8.806E-08
SSW	1.686E-05	5.353E-06	2.771E-06	1.361E-06	5.347E-07	2.838E-07	1.767E-07	1.213E-07	8.899E-08	6.843E-08	5.452E-08
SW	6.875E-06	2.344E-06	1.221E-06	5.951E-07	2.272E-07	1.182E-07	7.243E-08	4.910E-08	3.562E-08	2.714E-08	2.144E-08
WSW	1.070E-05	3.347E-06	1.698E-06	8.271E-07	3.297E-07	1.768E-07	1.109E-07	7.666E-08	5.652E-08	4.366E-08	3.493E-08
W	5.479E-06	1.695E-06	8.601E-07	4.201E-07	1.678E-07	9.011E-08	5.658E-08	3.911E-08	2.885E-08	2.229E-08	1.783E-08
WNW	1.089E-05	3.468E-06	1.755E-06	8.506E-07	3.362E-07	1.792E-07	1.120E-07	7.712E-08	5.671E-08	4.371E-08	3.489E-08
NW	1.863E-05	5.576E-06	2.754E-06	1.331E-06	5.391E-07	2.921E-07	1.847E-07	1.284E-07	9.517E-08	7.384E-08	5.928E-08
NNW	6.149E-05	1.797E-05	8.921E-06	4.348E-06	1.791E-06	9.808E-07	6.250E-07	4.372E-07	3.256E-07	2.536E-07	2.043E-07
N	7.426E-05	2.210E-05	1.148E-05	5.713E-06	2.310E-06	1.250E-06	7.889E-07	5.477E-07	4.054E-07	3.141E-07	2.519E-07
NNE	5.151E-05	1.560E-05	8.128E-06	4.037E-06	1.607E-06	8.606E-07	5.393E-07	3.722E-07	2.742E-07	2.116E-07	1.692E-07
NE	3.325E-05	1.032E-05	5.432E-06	2.704E-06	1.069E-06	5.693E-07	3.553E-07	2.444E-07	1.795E-07	1.382E-07	1.102E-07
ENE	2.687E-05	8.297E-06	4.258E-06	2.090E-06	8.341E-07	4.476E-07	2.809E-07	1.942E-07	1.432E-07	1.107E-07	8.853E-08
E	1.960E-05	6.005E-06	3.193E-06	1.599E-06	6.331E-07	3.376E-07	2.109E-07	1.452E-07	1.067E-07	8.221E-08	6.560E-08
ESE	2.449E-05	7.833E-06	4.085E-06	2.012E-06	7.941E-07	4.229E-07	2.640E-07	1.816E-07	1.334E-07	1.028E-07	8.199E-08
SE	3.000E-05	9.988E-06	5.306E-06	2.620E-06	1.007E-06	5.264E-07	3.238E-07	2.202E-07	1.602E-07	1.223E-07	9.684E-08
SSE	3.586E-05	1.175E-05	6.215E-06	3.071E-06	1.179E-06	6.160E-07	3.787E-07	2.574E-07	1.872E-07	1.429E-07	1.131E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	7.178E-08	3.470E-08	2.134E-08	1.124E-08	7.098E-09	4.947E-09	3.671E-09	2.844E-09	2.274E-09	1.862E-09	1.555E-09
SSW	4.465E-08	2.198E-08	1.369E-08	7.341E-09	4.693E-09	3.301E-09	2.467E-09	1.923E-09	1.545E-09	1.270E-09	1.064E-09
SW	1.743E-08	8.343E-09	5.093E-09	2.656E-09	1.665E-09	1.154E-09	8.524E-10	6.579E-10	5.243E-10	4.283E-10	3.566E-10
WSW	2.870E-08	1.432E-08	9.002E-09	4.888E-09	3.150E-09	2.230E-09	1.675E-09	1.311E-09	1.057E-09	8.718E-10	7.323E-10
W	1.466E-08	7.313E-09	4.597E-09	2.496E-09	1.608E-09	1.138E-09	8.546E-10	6.686E-10	5.390E-10	4.446E-10	3.734E-10
WNW	2.863E-08	1.420E-08	8.892E-09	4.804E-09	3.087E-09	2.180E-09	1.635E-09	1.278E-09	1.029E-09	8.484E-10	7.121E-10
NW	4.889E-08	2.471E-08	1.567E-08	8.616E-09	5.602E-09	3.992E-09	3.015E-09	2.370E-09	1.918E-09	1.588E-09	1.337E-09
NNW	1.690E-07	8.630E-08	5.509E-08	3.054E-08	1.996E-08	1.428E-08	1.081E-08	8.522E-09	6.912E-09	5.732E-09	4.837E-09
N	2.075E-07	1.044E-07	6.599E-08	3.609E-08	2.337E-08	1.660E-08	1.251E-08	9.812E-09	7.930E-09	6.555E-09	5.516E-09
NNE	1.389E-07	6.915E-08	4.339E-08	2.353E-08	1.517E-08	1.074E-08	8.069E-09	6.318E-09	5.097E-09	4.208E-09	3.537E-09
NE	9.035E-08	4.461E-08	2.783E-08	1.496E-08	9.574E-09	6.742E-09	5.043E-09	3.933E-09	3.162E-09	2.602E-09	2.181E-09
ENE	7.277E-08	3.634E-08	2.285E-08	1.242E-08	8.019E-09	5.684E-09	4.274E-09	3.348E-09	2.702E-09	2.231E-09	1.876E-09
E	5.380E-08	2.662E-08	1.664E-08	8.963E-09	5.749E-09	4.055E-09	3.037E-09	2.370E-09	1.907E-09	1.571E-09	1.317E-09
ESE	6.722E-08	3.325E-08	2.077E-08	1.118E-08	7.167E-09	5.051E-09	3.781E-09	2.951E-09	2.374E-09	1.955E-09	1.640E-09
SE	7.888E-08	3.805E-08	2.336E-08	1.228E-08	7.745E-09	5.394E-09	4.000E-09	3.097E-09	2.476E-09	2.027E-09	1.692E-09
SSE	9.207E-08	4.436E-08	2.720E-08	1.429E-08	9.010E-09	6.274E-09	4.651E-09	3.601E-09	2.878E-09	2.356E-09	1.966E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	4.686E-06	1.038E-06	3.045E-07	1.479E-07	8.887E-08	3.700E-08	1.164E-08	5.010E-09	2.863E-09	1.870E-09
SSW	2.718E-06	6.068E-07	1.831E-07	9.040E-08	5.498E-08	2.333E-08	7.575E-09	3.339E-09	1.934E-09	1.275E-09
SW	1.193E-06	2.605E-07	7.530E-08	3.624E-08	2.165E-08	8.918E-09	2.757E-09	1.170E-09	6.626E-10	4.302E-10
WSW	1.677E-06	3.723E-07	1.148E-07	5.738E-08	3.521E-08	1.515E-08	5.030E-09	2.253E-09	1.318E-09	8.749E-10
W	8.501E-07	1.893E-07	5.853E-08	2.928E-08	1.798E-08	7.738E-09	2.568E-09	1.150E-09	6.723E-10	4.462E-10
WNW	1.734E-06	3.807E-07	1.160E-07	5.759E-08	3.519E-08	1.505E-08	4.949E-09	2.204E-09	1.285E-09	8.515E-10
NW	2.749E-06	6.054E-07	1.908E-07	9.654E-08	5.975E-08	2.607E-08	8.845E-09	4.031E-09	2.382E-09	1.593E-09
NNW	8.900E-06	1.999E-06	6.448E-07	3.300E-07	2.058E-07	9.080E-08	3.130E-08	1.441E-08	8.564E-09	5.750E-09
N	1.128E-05	2.595E-06	8.152E-07	4.113E-07	2.539E-07	1.102E-07	3.708E-08	1.677E-08	9.865E-09	6.578E-09
NNE	7.970E-06	1.815E-06	5.582E-07	2.784E-07	1.706E-07	7.321E-08	2.423E-08	1.085E-08	6.353E-09	4.223E-09
NE	5.307E-06	1.210E-06	3.680E-07	1.823E-07	1.112E-07	4.732E-08	1.543E-08	6.818E-09	3.956E-09	2.612E-09
ENE	4.192E-06	9.415E-07	2.907E-07	1.454E-07	8.925E-08	3.844E-08	1.278E-08	5.742E-09	3.366E-09	2.239E-09
E	3.110E-06	7.165E-07	2.184E-07	1.084E-07	6.615E-08	2.822E-08	9.240E-09	4.099E-09	2.384E-09	1.577E-09
ESE	3.996E-06	8.997E-07	2.734E-07	1.355E-07	8.268E-08	3.525E-08	1.153E-08	5.107E-09	2.968E-09	1.962E-09
SE	5.153E-06	1.152E-06	3.364E-07	1.629E-07	9.773E-08	4.059E-08	1.273E-08	5.463E-09	3.118E-09	2.036E-09
SSE	6.047E-06	1.349E-06	3.935E-07	1.904E-07	1.141E-07	4.734E-08	1.481E-08	6.355E-09	3.626E-09	2.366E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.769E-07	5.982E-08	3.071E-08	1.460E-08	5.245E-09	2.601E-09	1.532E-09	1.003E-09	7.057E-10	5.230E-10	4.030E-10
SSW	8.380E-08	2.834E-08	1.455E-08	6.917E-09	2.485E-09	1.232E-09	7.255E-10	4.751E-10	3.343E-10	2.477E-10	1.909E-10
SW	5.121E-08	1.732E-08	8.891E-09	4.227E-09	1.518E-09	7.530E-10	4.434E-10	2.903E-10	2.043E-10	1.514E-10	1.167E-10
WSW	3.608E-08	1.220E-08	6.264E-09	2.978E-09	1.070E-09	5.305E-10	3.124E-10	2.045E-10	1.439E-10	1.067E-10	8.220E-11
W	1.979E-08	6.691E-09	3.435E-09	1.633E-09	5.866E-10	2.909E-10	1.713E-10	1.122E-10	7.893E-11	5.849E-11	4.507E-11
WNW	4.655E-08	1.574E-08	8.083E-09	3.843E-09	1.380E-09	6.845E-10	4.031E-10	2.639E-10	1.857E-10	1.376E-10	1.061E-10
NW	5.703E-08	1.928E-08	9.902E-09	4.707E-09	1.691E-09	8.385E-10	4.938E-10	3.233E-10	2.275E-10	1.686E-10	1.299E-10
NNW	1.769E-07	5.982E-08	3.071E-08	1.460E-08	5.245E-09	2.601E-09	1.532E-09	1.003E-09	7.057E-10	5.230E-10	4.030E-10
N	2.654E-07	8.973E-08	4.607E-08	2.190E-08	7.868E-09	3.902E-09	2.297E-09	1.504E-09	1.059E-09	7.845E-10	6.045E-10
NNE	2.444E-07	8.265E-08	4.244E-08	2.017E-08	7.247E-09	3.594E-09	2.116E-09	1.386E-09	9.750E-10	7.225E-10	5.568E-10
NE	1.443E-07	4.880E-08	2.506E-08	1.191E-08	4.279E-09	2.122E-09	1.249E-09	8.182E-10	5.757E-10	4.266E-10	3.288E-10
ENE	1.141E-07	3.857E-08	1.980E-08	9.415E-09	3.382E-09	1.677E-09	9.875E-10	6.466E-10	4.550E-10	3.372E-10	2.598E-10
E	9.660E-08	3.267E-08	1.677E-08	7.974E-09	2.864E-09	1.420E-09	8.364E-10	5.476E-10	3.853E-10	2.856E-10	2.201E-10
ESE	1.490E-07	5.038E-08	2.587E-08	1.230E-08	4.417E-09	2.190E-09	1.290E-09	8.445E-10	5.943E-10	4.404E-10	3.394E-10
SE	2.979E-07	1.008E-07	5.173E-08	2.459E-08	8.834E-09	4.381E-09	2.580E-09	1.689E-09	1.189E-09	8.808E-10	6.788E-10
SSE	3.561E-07	1.204E-07	6.183E-08	2.940E-08	1.056E-08	5.237E-09	3.083E-09	2.019E-09	1.421E-09	1.053E-09	8.113E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	3.202E-10	1.422E-10	8.616E-11	4.355E-11	2.636E-11	1.767E-11	1.266E-11	9.509E-12	7.393E-12	5.906E-12	4.820E-12
SSW	1.517E-10	6.737E-11	4.081E-11	2.063E-11	1.249E-11	8.371E-12	5.998E-12	4.504E-12	3.502E-12	2.797E-12	2.283E-12
SW	9.268E-11	4.117E-11	2.494E-11	1.261E-11	7.630E-12	5.116E-12	3.666E-12	2.753E-12	2.140E-12	1.710E-12	1.395E-12
WSW	6.530E-11	2.901E-11	1.757E-11	8.882E-12	5.376E-12	3.604E-12	2.583E-12	1.939E-12	1.508E-12	1.204E-12	9.831E-13
W	3.581E-11	1.591E-11	9.636E-12	4.871E-12	2.948E-12	1.977E-12	1.416E-12	1.063E-12	8.269E-13	6.605E-13	5.391E-13
WNW	8.426E-11	3.743E-11	2.267E-11	1.146E-11	6.936E-12	4.651E-12	3.332E-12	2.502E-12	1.946E-12	1.554E-12	1.269E-12
NW	1.032E-10	4.585E-11	2.777E-11	1.404E-11	8.497E-12	5.697E-12	4.082E-12	3.065E-12	2.383E-12	1.904E-12	1.554E-12
NNW	3.202E-10	1.422E-10	8.616E-11	4.355E-11	2.636E-11	1.767E-11	1.266E-11	9.509E-12	7.393E-12	5.906E-12	4.820E-12
N	4.803E-10	2.134E-10	1.292E-10	6.532E-11	3.954E-11	2.651E-11	1.899E-11	1.426E-11	1.109E-11	8.859E-12	7.231E-12
NNE	4.423E-10	1.965E-10	1.190E-10	6.017E-11	3.642E-11	2.442E-11	1.750E-11	1.314E-11	1.021E-11	8.159E-12	6.660E-12
NE	2.612E-10	1.160E-10	7.029E-11	3.553E-11	2.150E-11	1.442E-11	1.033E-11	7.757E-12	6.031E-12	4.818E-12	3.932E-12
ENE	2.064E-10	9.170E-11	5.555E-11	2.808E-11	1.699E-11	1.139E-11	8.164E-12	6.131E-12	4.767E-12	3.808E-12	3.108E-12
E	1.748E-10	7.767E-11	4.705E-11	2.378E-11	1.439E-11	9.650E-12	6.915E-12	5.192E-12	4.037E-12	3.225E-12	2.632E-12
ESE	2.696E-10	1.198E-10	7.255E-11	3.667E-11	2.220E-11	1.488E-11	1.066E-11	8.007E-12	6.226E-12	4.973E-12	4.059E-12
SE	5.392E-10	2.396E-10	1.451E-10	7.335E-11	4.439E-11	2.976E-11	2.133E-11	1.601E-11	1.245E-11	9.947E-12	8.119E-12
SSE	6.446E-10	2.863E-10	1.735E-10	8.767E-11	5.306E-11	3.558E-11	2.549E-11	1.914E-11	1.488E-11	1.189E-11	9.704E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.002E-08	6.149E-09	1.605E-09	7.210E-10	4.079E-10	1.569E-10	4.538E-11	1.798E-11	9.604E-12	5.945E-12
SSW	1.422E-08	2.913E-09	7.604E-10	3.415E-10	1.932E-10	7.430E-11	2.149E-11	8.519E-12	4.549E-12	2.816E-12
SW	8.691E-09	1.780E-09	4.647E-10	2.087E-10	1.181E-10	4.541E-11	1.314E-11	5.206E-12	2.780E-12	1.721E-12
WSW	6.123E-09	1.254E-09	3.274E-10	1.470E-10	8.319E-11	3.199E-11	9.255E-12	3.668E-12	1.959E-12	1.212E-12
W	3.358E-09	6.878E-10	1.795E-10	8.064E-11	4.562E-11	1.754E-11	5.075E-12	2.011E-12	1.074E-12	6.648E-13
WNW	7.900E-09	1.618E-09	4.225E-10	1.897E-10	1.073E-10	4.128E-11	1.194E-11	4.733E-12	2.527E-12	1.564E-12
NW	9.678E-09	1.982E-09	5.175E-10	2.324E-10	1.315E-10	5.056E-11	1.463E-11	5.798E-12	3.096E-12	1.916E-12
NNW	3.002E-08	6.149E-09	1.605E-09	7.210E-10	4.079E-10	1.569E-10	4.538E-11	1.798E-11	9.604E-12	5.945E-12
N	4.503E-08	9.224E-09	2.408E-09	1.082E-09	6.118E-10	2.353E-10	6.807E-11	2.698E-11	1.441E-11	8.917E-12
NNE	4.148E-08	8.496E-09	2.218E-09	9.961E-10	5.635E-10	2.167E-10	6.269E-11	2.485E-11	1.327E-11	8.213E-12
NE	2.449E-08	5.017E-09	1.310E-09	5.882E-10	3.327E-10	1.280E-10	3.702E-11	1.467E-11	7.835E-12	4.849E-12
ENE	1.936E-08	3.965E-09	1.035E-09	4.649E-10	2.630E-10	1.011E-10	2.926E-11	1.160E-11	6.192E-12	3.833E-12
E	1.639E-08	3.358E-09	8.766E-10	3.937E-10	2.227E-10	8.565E-11	2.478E-11	9.821E-12	5.244E-12	3.246E-12
ESE	2.528E-08	5.178E-09	1.352E-09	6.072E-10	3.435E-10	1.321E-10	3.821E-11	1.515E-11	8.088E-12	5.006E-12
SE	5.056E-08	1.036E-08	2.704E-09	1.214E-09	6.870E-10	2.642E-10	7.642E-11	3.029E-11	1.618E-11	1.001E-11
SSE	6.044E-08	1.238E-08	3.232E-09	1.451E-09	8.211E-10	3.158E-10	9.135E-11	3.621E-11	1.933E-11	1.197E-11

VENTS GROUND LEVEL RELEASES - JAN-MAR 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	4.6E-06	4.6E-06	4.1E-06	2.6E-08
A	Site Boundary	SSW	.82	2.5E-06	2.5E-06	2.2E-06	1.1E-08
A	Site Boundary	SW	.97	7.2E-07	7.2E-07	6.3E-07	4.5E-09
A	Site Boundary	WSW	.93	1.1E-06	1.1E-06	1.0E-06	3.6E-09
A	Site Boundary	W	.91	6.0E-07	6.0E-07	5.3E-07	2.1E-09
A	Site Boundary	WNW	.94	1.1E-06	1.1E-06	1.0E-06	4.5E-09
A	Site Boundary	NW	.81	2.5E-06	2.5E-06	2.3E-06	8.1E-09
A	Site Boundary	NNW	.69	1.2E-05	1.1E-05	1.0E-05	3.6E-08
A	Site Boundary	N	.67	1.5E-05	1.5E-05	1.4E-05	5.5E-08
A	Site Boundary	NNE	.60	1.3E-05	1.3E-05	1.2E-05	6.1E-08
A	Site Boundary	NE	.62	8.0E-06	8.0E-06	7.2E-06	3.4E-08
A	Site Boundary	ENE	.59	7.0E-06	7.0E-06	6.4E-06	3.0E-08
A	Site Boundary	E	.53	6.1E-06	6.1E-06	5.5E-06	3.0E-08
A	Site Boundary	ESE	.54	7.7E-06	7.6E-06	7.0E-06	4.5E-08
A	Site Boundary	SE	.65	7.4E-06	7.4E-06	6.6E-06	6.6E-08
A	Site Boundary	SSE	.81	5.8E-06	5.8E-06	5.1E-06	5.1E-08
A	Nearest Res	SW	1.30	3.7E-07	3.7E-07	3.2E-07	2.2E-09
A	Nearest Res	WSW	2.50	1.4E-07	1.4E-07	1.1E-07	3.1E-10
A	Nearest Res	W	1.00	4.8E-07	4.8E-07	4.2E-07	1.6E-09
A	Nearest Res	WNW	1.70	3.0E-07	3.0E-07	2.6E-07	1.0E-09
A	Nearest Res	NW	.90	2.0E-06	2.0E-06	1.7E-06	6.2E-09
A	Nearest Res	NNW	1.90	1.3E-06	1.3E-06	1.1E-06	2.9E-09
A	Nearest Res	N	3.00	6.9E-07	6.8E-07	5.5E-07	1.5E-09
A	Nearest Res	ENE	1.70	7.6E-07	7.5E-07	6.3E-07	2.5E-09
A	Nearest Res	E	1.80	5.1E-07	5.0E-07	4.2E-07	1.8E-09
A	Nearest Res	ESE	2.30	3.9E-07	3.8E-07	3.1E-07	1.6E-09
A	Nearest Cow	NNW	3.50	4.2E-07	4.1E-07	3.3E-07	7.1E-10
A	Nearest Garde	SW	1.30	3.7E-07	3.7E-07	3.2E-07	2.2E-09
A	Nearest Garde	WSW	1.90	2.4E-07	2.4E-07	2.0E-07	6.0E-10
A	Nearest Garde	WNW	2.40	1.5E-07	1.5E-07	1.2E-07	4.4E-10
A	Nearest Garde	NW	2.90	1.7E-07	1.7E-07	1.4E-07	3.5E-10
A	Nearest Garde	NNW	1.90	1.3E-06	1.3E-06	1.1E-06	2.9E-09
A	Nearest Garde	N	3.00	6.9E-07	6.8E-07	5.5E-07	1.5E-09
A	Nearest Garde	ESE	2.30	3.9E-07	3.8E-07	3.1E-07	1.6E-09

Atmospheric Diffusion Estimates

Ground-Level Releases

April-June 2002

VENTS GROUND LEVEL RELEASES - APR-JUN 2002
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.976E-05	1.333E-05	7.180E-06	3.608E-06	1.449E-06	7.848E-07	4.974E-07	3.472E-07	2.585E-07	2.016E-07	1.628E-07
SSW	1.775E-05	6.257E-06	3.456E-06	1.746E-06	6.890E-07	3.684E-07	2.312E-07	1.601E-07	1.184E-07	9.177E-08	7.370E-08
SW	1.398E-05	4.794E-06	2.602E-06	1.306E-06	5.169E-07	2.770E-07	1.742E-07	1.208E-07	8.953E-08	6.952E-08	5.592E-08
WSW	6.325E-06	2.178E-06	1.164E-06	5.771E-07	2.281E-07	1.223E-07	7.695E-08	5.342E-08	3.961E-08	3.078E-08	2.478E-08
W	5.591E-06	1.876E-06	9.970E-07	4.946E-07	1.966E-07	1.058E-07	6.681E-08	4.651E-08	3.457E-08	2.692E-08	2.171E-08
WNW	1.238E-05	4.309E-06	2.354E-06	1.183E-06	4.699E-07	2.524E-07	1.591E-07	1.105E-07	8.197E-08	6.372E-08	5.130E-08
NW	2.293E-05	7.690E-06	4.192E-06	2.117E-06	8.420E-07	4.527E-07	2.854E-07	1.984E-07	1.472E-07	1.145E-07	9.216E-08
NNW	4.500E-05	1.503E-05	8.103E-06	4.069E-06	1.633E-06	8.838E-07	5.602E-07	3.910E-07	2.912E-07	2.272E-07	1.835E-07
N	7.479E-05	2.401E-05	1.284E-05	6.466E-06	2.631E-06	1.438E-06	9.177E-07	6.443E-07	4.822E-07	3.777E-07	3.061E-07
NNE	2.557E-05	8.376E-06	4.541E-06	2.291E-06	9.156E-07	4.942E-07	3.126E-07	2.179E-07	1.621E-07	1.263E-07	1.019E-07
NE	2.235E-05	6.986E-06	3.669E-06	1.837E-06	7.521E-07	4.127E-07	2.643E-07	1.860E-07	1.395E-07	1.095E-07	8.889E-08
ENE	1.495E-05	4.580E-06	2.357E-06	1.172E-06	4.840E-07	2.672E-07	1.719E-07	1.215E-07	9.139E-08	7.192E-08	5.853E-08
E	1.198E-05	3.613E-06	1.912E-06	9.697E-07	4.021E-07	2.223E-07	1.432E-07	1.012E-07	7.617E-08	5.994E-08	4.878E-08
ESE	1.971E-05	6.140E-06	3.340E-06	1.709E-06	7.001E-07	3.839E-07	2.456E-07	1.727E-07	1.294E-07	1.015E-07	8.229E-08
SE	2.994E-05	9.274E-06	4.866E-06	2.444E-06	1.009E-06	5.563E-07	3.576E-07	2.524E-07	1.897E-07	1.492E-07	1.213E-07
SSE	5.980E-05	1.884E-05	9.954E-06	5.004E-06	2.066E-06	1.140E-06	7.326E-07	5.172E-07	3.888E-07	3.057E-07	2.486E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.350E-07	6.993E-08	4.557E-08	2.635E-08	1.794E-08	1.334E-08	1.048E-08	8.561E-09	7.188E-09	6.163E-09	5.373E-09
SSW	6.084E-08	3.093E-08	1.989E-08	1.127E-08	7.558E-09	5.554E-09	4.323E-09	3.500E-09	2.916E-09	2.484E-09	2.152E-09
SW	4.622E-08	2.365E-08	1.528E-08	8.736E-09	5.907E-09	4.370E-09	3.420E-09	2.782E-09	2.328E-09	1.991E-09	1.731E-09
WSW	2.050E-08	1.053E-08	6.825E-09	3.924E-09	2.670E-09	1.985E-09	1.560E-09	1.273E-09	1.069E-09	9.162E-10	7.987E-10
W	1.800E-08	9.326E-09	6.083E-09	3.527E-09	2.412E-09	1.800E-09	1.420E-09	1.162E-09	9.778E-10	8.401E-10	7.338E-10
WNW	4.244E-08	2.178E-08	1.410E-08	8.072E-09	5.459E-09	4.039E-09	3.161E-09	2.571E-09	2.152E-09	1.839E-09	1.599E-09
NW	7.627E-08	3.918E-08	2.539E-08	1.456E-08	9.861E-09	7.302E-09	5.720E-09	4.657E-09	3.900E-09	3.336E-09	2.902E-09
NNW	1.522E-07	7.896E-08	5.152E-08	2.985E-08	2.036E-08	1.516E-08	1.193E-08	9.754E-09	8.196E-09	7.033E-09	6.135E-09
N	2.548E-07	1.338E-07	8.801E-08	5.158E-08	3.546E-08	2.657E-08	2.101E-08	1.725E-08	1.454E-08	1.252E-08	1.095E-08
NNE	8.450E-08	4.378E-08	2.854E-08	1.652E-08	1.128E-08	8.401E-09	6.613E-09	5.406E-09	4.543E-09	3.899E-09	3.401E-09
NE	7.409E-08	3.914E-08	2.586E-08	1.526E-08	1.056E-08	7.947E-09	6.310E-09	5.196E-09	4.394E-09	3.791E-09	3.324E-09
ENE	4.889E-08	2.603E-08	1.730E-08	1.029E-08	7.163E-09	5.418E-09	4.318E-09	3.567E-09	3.024E-09	2.616E-09	2.299E-09
E	4.075E-08	2.168E-08	1.440E-08	8.543E-09	5.926E-09	4.471E-09	3.555E-09	2.931E-09	2.481E-09	2.143E-09	1.880E-09
ESE	6.853E-08	3.604E-08	2.373E-08	1.391E-08	9.568E-09	7.168E-09	5.669E-09	4.652E-09	3.922E-09	3.375E-09	2.951E-09
SE	1.013E-07	5.373E-08	3.562E-08	2.109E-08	1.462E-08	1.102E-08	8.759E-09	7.219E-09	6.109E-09	5.275E-09	4.628E-09
SSE	2.075E-07	1.101E-07	7.294E-08	4.315E-08	2.984E-08	2.246E-08	1.783E-08	1.468E-08	1.241E-08	1.071E-08	9.386E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES FROM THE SITE .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.958E-06	1.634E-06	5.140E-07	2.622E-07	1.640E-07	7.357E-08	2.688E-08	1.342E-08	8.588E-09	6.174E-09
SSW	3.318E-06	7.813E-07	2.393E-07	1.201E-07	7.429E-08	3.267E-08	1.153E-08	5.596E-09	3.512E-09	2.489E-09
SW	2.513E-06	5.856E-07	1.803E-07	9.086E-08	5.636E-08	2.495E-08	8.934E-09	4.400E-09	2.791E-09	1.994E-09
WSW	1.129E-06	2.587E-07	7.963E-08	4.019E-08	2.497E-08	1.110E-08	4.011E-09	1.997E-09	1.277E-09	9.179E-10
W	9.691E-07	2.225E-07	6.909E-08	3.506E-08	2.188E-08	9.812E-09	3.600E-09	1.811E-09	1.165E-09	8.415E-10
WNW	2.268E-06	5.318E-07	1.645E-07	8.317E-08	5.170E-08	2.295E-08	8.249E-09	4.066E-09	2.580E-09	1.843E-09
NW	4.047E-06	9.522E-07	2.952E-07	1.493E-07	9.288E-08	4.129E-08	1.488E-08	7.352E-09	4.672E-09	3.342E-09
NNW	7.850E-06	1.841E-06	5.788E-07	2.953E-07	1.849E-07	8.305E-08	3.045E-08	1.526E-08	9.783E-09	7.045E-09
N	1.249E-05	2.953E-06	9.470E-07	4.887E-07	3.083E-07	1.403E-07	5.251E-08	2.672E-08	1.729E-08	1.254E-08
NNE	4.393E-06	1.034E-06	3.232E-07	1.644E-07	1.027E-07	4.606E-08	1.686E-08	8.453E-09	5.422E-09	3.906E-09
NE	3.592E-06	8.425E-07	2.725E-07	1.414E-07	8.951E-08	4.101E-08	1.553E-08	7.988E-09	5.208E-09	3.797E-09
ENE	2.324E-06	5.405E-07	1.771E-07	9.257E-08	5.893E-08	2.723E-08	1.046E-08	5.443E-09	3.575E-09	2.620E-09
E	1.871E-06	4.483E-07	1.475E-07	7.714E-08	4.911E-08	2.268E-08	8.681E-09	4.493E-09	2.938E-09	2.146E-09
ESE	3.237E-06	7.838E-07	2.533E-07	1.311E-07	8.287E-08	3.779E-08	1.416E-08	7.208E-09	4.664E-09	3.380E-09
SE	4.769E-06	1.126E-06	3.685E-07	1.922E-07	1.222E-07	5.625E-08	2.144E-08	1.107E-08	7.236E-09	5.282E-09
SSE	9.729E-06	2.307E-06	7.550E-07	3.938E-07	2.503E-07	1.152E-07	4.385E-08	2.258E-08	1.471E-08	1.072E-08

VENTS GROUND LEVEL RELEASES - APR-JUN 2002
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.972E-05	1.330E-05	7.159E-06	3.594E-06	1.441E-06	7.788E-07	4.926E-07	3.431E-07	2.550E-07	1.985E-07	1.599E-07
SSW	1.773E-05	6.245E-06	3.446E-06	1.739E-06	6.850E-07	3.655E-07	2.289E-07	1.582E-07	1.167E-07	9.031E-08	7.238E-08
SW	1.397E-05	4.785E-06	2.595E-06	1.301E-06	5.140E-07	2.750E-07	1.726E-07	1.195E-07	8.836E-08	6.848E-08	5.497E-08
WSW	6.318E-06	2.174E-06	1.160E-06	5.747E-07	2.267E-07	1.212E-07	7.613E-08	5.273E-08	3.901E-08	3.025E-08	2.430E-08
W	5.587E-06	1.873E-06	9.949E-07	4.932E-07	1.958E-07	1.052E-07	6.632E-08	4.610E-08	3.421E-08	2.660E-08	2.142E-08
WNW	1.237E-05	4.302E-06	2.349E-06	1.179E-06	4.676E-07	2.508E-07	1.577E-07	1.094E-07	8.100E-08	6.285E-08	5.051E-08
NW	2.291E-05	7.679E-06	4.183E-06	2.110E-06	8.381E-07	4.500E-07	2.832E-07	1.965E-07	1.456E-07	1.130E-07	9.087E-08
NNW	4.497E-05	1.501E-05	8.084E-06	4.056E-06	1.625E-06	8.781E-07	5.556E-07	3.872E-07	2.879E-07	2.242E-07	1.807E-07
N	7.472E-05	2.397E-05	1.281E-05	6.444E-06	2.617E-06	1.428E-06	9.096E-07	6.374E-07	4.761E-07	3.723E-07	3.011E-07
NNE	2.555E-05	8.361E-06	4.528E-06	2.282E-06	9.104E-07	4.905E-07	3.096E-07	2.154E-07	1.599E-07	1.244E-07	1.001E-07
NE	2.232E-05	6.971E-06	3.658E-06	1.830E-06	7.472E-07	4.090E-07	2.613E-07	1.835E-07	1.373E-07	1.075E-07	8.707E-08
ENE	1.493E-05	4.570E-06	2.349E-06	1.167E-06	4.807E-07	2.648E-07	1.699E-07	1.198E-07	8.991E-08	7.058E-08	5.730E-08
E	1.197E-05	3.604E-06	1.906E-06	9.651E-07	3.991E-07	2.202E-07	1.414E-07	9.972E-08	7.485E-08	5.876E-08	4.770E-08
ESE	1.969E-05	6.127E-06	3.330E-06	1.702E-06	6.956E-07	3.806E-07	2.430E-07	1.705E-07	1.274E-07	9.970E-08	8.068E-08
SE	2.991E-05	9.255E-06	4.851E-06	2.433E-06	1.002E-06	5.514E-07	3.536E-07	2.490E-07	1.868E-07	1.465E-07	1.189E-07
SSE	5.973E-05	1.880E-05	9.925E-06	4.984E-06	2.053E-06	1.130E-06	7.251E-07	5.108E-07	3.831E-07	3.006E-07	2.439E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.324E-07	6.784E-08	4.375E-08	2.476E-08	1.650E-08	1.201E-08	9.245E-09	7.390E-09	6.074E-09	5.098E-09	4.351E-09
SSW	5.962E-08	3.000E-08	1.909E-08	1.060E-08	6.961E-09	5.010E-09	3.818E-09	3.028E-09	2.471E-09	2.061E-09	1.750E-09
SW	4.536E-08	2.298E-08	1.471E-08	8.244E-09	5.467E-09	3.965E-09	3.043E-09	2.428E-09	1.993E-09	1.671E-09	1.425E-09
WSW	2.006E-08	1.019E-08	6.531E-09	3.672E-09	2.443E-09	1.776E-09	1.365E-09	1.089E-09	8.943E-10	7.498E-10	6.393E-10
W	1.773E-08	9.116E-09	5.899E-09	3.366E-09	2.265E-09	1.663E-09	1.290E-09	1.039E-09	8.597E-10	7.265E-10	6.241E-10
WNW	4.171E-08	2.121E-08	1.361E-08	7.653E-09	5.083E-09	3.692E-09	2.837E-09	2.266E-09	1.862E-09	1.563E-09	1.335E-09
NW	7.508E-08	3.826E-08	2.459E-08	1.388E-08	9.246E-09	6.737E-09	5.192E-09	4.160E-09	3.427E-09	2.885E-09	2.470E-09
NNW	1.497E-07	7.696E-08	4.977E-08	2.832E-08	1.897E-08	1.388E-08	1.073E-08	8.610E-09	7.105E-09	5.988E-09	5.130E-09
N	2.502E-07	1.301E-07	8.477E-08	4.872E-08	3.285E-08	2.413E-08	1.872E-08	1.507E-08	1.246E-08	1.052E-08	9.023E-09
NNE	8.287E-08	4.250E-08	2.743E-08	1.556E-08	1.041E-08	7.599E-09	5.862E-09	4.697E-09	3.869E-09	3.254E-09	2.783E-09
NE	7.241E-08	3.779E-08	2.468E-08	1.422E-08	9.601E-09	7.056E-09	5.468E-09	4.395E-09	3.628E-09	3.056E-09	2.616E-09
ENE	4.775E-08	2.511E-08	1.649E-08	9.568E-09	6.496E-09	4.793E-09	3.726E-09	3.003E-09	2.484E-09	2.096E-09	1.797E-09
E	3.974E-08	2.087E-08	1.368E-08	7.914E-09	5.351E-09	3.934E-09	3.049E-09	2.450E-09	2.021E-09	1.702E-09	1.455E-09
ESE	6.704E-08	3.485E-08	2.269E-08	1.301E-08	8.742E-09	6.402E-09	4.949E-09	3.970E-09	3.271E-09	2.752E-09	2.353E-09
SE	9.899E-08	5.190E-08	3.400E-08	1.966E-08	1.330E-08	9.784E-09	7.590E-09	6.106E-09	5.044E-09	4.251E-09	3.640E-09
SSE	2.031E-07	1.066E-07	6.985E-08	4.041E-08	2.733E-08	2.012E-08	1.562E-08	1.257E-08	1.039E-08	8.770E-09	7.518E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.940E-06	1.625E-06	5.091E-07	2.586E-07	1.611E-07	7.147E-08	2.531E-08	1.210E-08	7.419E-09	5.110E-09
SSW	3.309E-06	7.772E-07	2.370E-07	1.185E-07	7.297E-08	3.174E-08	1.087E-08	5.053E-09	3.042E-09	2.067E-09
SW	2.507E-06	5.827E-07	1.787E-07	8.968E-08	5.541E-08	2.428E-08	8.446E-09	3.997E-09	2.438E-09	1.675E-09
WSW	1.125E-06	2.572E-07	7.880E-08	3.960E-08	2.449E-08	1.076E-08	3.761E-09	1.789E-09	1.094E-09	7.517E-10
W	9.672E-07	2.216E-07	6.860E-08	3.471E-08	2.159E-08	9.601E-09	3.440E-09	1.674E-09	1.042E-09	7.280E-10
WNW	2.263E-06	5.294E-07	1.632E-07	8.220E-08	5.091E-08	2.239E-08	7.834E-09	3.721E-09	2.276E-09	1.567E-09
NW	4.038E-06	9.483E-07	2.930E-07	1.477E-07	9.159E-08	4.037E-08	1.420E-08	6.788E-09	4.176E-09	2.892E-09
NNW	7.833E-06	1.833E-06	5.742E-07	2.920E-07	1.821E-07	8.104E-08	2.893E-08	1.398E-08	8.641E-09	6.001E-09
N	1.246E-05	2.939E-06	9.389E-07	4.826E-07	3.033E-07	1.366E-07	4.968E-08	2.429E-08	1.512E-08	1.054E-08
NNE	4.382E-06	1.029E-06	3.202E-07	1.622E-07	1.009E-07	4.477E-08	1.591E-08	7.653E-09	4.714E-09	3.262E-09
NE	3.581E-06	8.374E-07	2.696E-07	1.392E-07	8.770E-08	3.966E-08	1.449E-08	7.100E-09	4.410E-09	3.063E-09
ENE	2.317E-06	5.372E-07	1.752E-07	9.108E-08	5.770E-08	2.631E-08	9.740E-09	4.820E-09	3.012E-09	2.100E-09
E	1.865E-06	4.454E-07	1.457E-07	7.583E-08	4.803E-08	2.187E-08	8.057E-09	3.958E-09	2.458E-09	1.705E-09
ESE	3.228E-06	7.792E-07	2.507E-07	1.292E-07	8.126E-08	3.660E-08	1.326E-08	6.445E-09	3.983E-09	2.758E-09
SE	4.755E-06	1.120E-06	3.645E-07	1.892E-07	1.197E-07	5.441E-08	2.002E-08	9.843E-09	6.126E-09	4.260E-09
SSE	9.702E-06	2.294E-06	7.474E-07	3.882E-07	2.456E-07	1.117E-07	4.114E-08	2.024E-08	1.261E-08	8.788E-09

VENTS GROUND LEVEL RELEASES - APR-JUN 2002
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.762E-05	1.216E-05	6.393E-06	3.155E-06	1.229E-06	6.484E-07	4.018E-07	2.748E-07	2.009E-07	1.541E-07	1.225E-07
SSW	1.679E-05	5.711E-06	3.077E-06	1.526E-06	5.842E-07	3.044E-07	1.867E-07	1.267E-07	9.200E-08	7.013E-08	5.544E-08
SW	1.323E-05	4.375E-06	2.317E-06	1.142E-06	4.383E-07	2.289E-07	1.407E-07	9.569E-08	6.960E-08	5.314E-08	4.207E-08
WSW	5.984E-06	1.988E-06	1.036E-06	5.046E-07	1.934E-07	1.010E-07	6.214E-08	4.228E-08	3.078E-08	2.352E-08	1.863E-08
W	5.290E-06	1.713E-06	8.879E-07	4.326E-07	1.668E-07	8.747E-08	5.400E-08	3.685E-08	2.689E-08	2.060E-08	1.635E-08
WNW	1.171E-05	3.933E-06	2.097E-06	1.035E-06	3.985E-07	2.086E-07	1.285E-07	8.752E-08	6.375E-08	4.873E-08	3.862E-08
NW	2.170E-05	7.020E-06	3.733E-06	1.851E-06	7.141E-07	3.742E-07	2.307E-07	1.572E-07	1.145E-07	8.755E-08	6.940E-08
NNW	4.258E-05	1.372E-05	7.216E-06	3.558E-06	1.385E-06	7.305E-07	4.527E-07	3.097E-07	2.265E-07	1.737E-07	1.381E-07
N	7.076E-05	2.192E-05	1.144E-05	5.654E-06	2.231E-06	1.188E-06	7.415E-07	5.102E-07	3.749E-07	2.888E-07	2.304E-07
NNE	2.420E-05	7.645E-06	4.043E-06	2.003E-06	7.763E-07	4.084E-07	2.525E-07	1.725E-07	1.260E-07	9.653E-08	7.667E-08
NE	2.115E-05	6.376E-06	3.267E-06	1.606E-06	6.376E-07	3.409E-07	2.134E-07	1.472E-07	1.084E-07	8.362E-08	6.682E-08
ENE	1.414E-05	4.179E-06	2.099E-06	1.024E-06	4.102E-07	2.207E-07	1.388E-07	9.610E-08	7.098E-08	5.492E-08	4.399E-08
E	1.134E-05	3.297E-06	1.702E-06	8.477E-07	3.407E-07	1.836E-07	1.156E-07	8.005E-08	5.914E-08	4.576E-08	3.665E-08
ESE	1.865E-05	5.604E-06	2.974E-06	1.494E-06	5.935E-07	3.171E-07	1.983E-07	1.367E-07	1.005E-07	7.750E-08	6.187E-08
SE	2.833E-05	8.464E-06	4.333E-06	2.136E-06	8.550E-07	4.595E-07	2.887E-07	1.997E-07	1.474E-07	1.140E-07	9.121E-08
SSE	5.657E-05	1.720E-05	8.863E-06	4.375E-06	1.752E-06	9.415E-07	5.917E-07	4.094E-07	3.021E-07	2.336E-07	1.870E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.001E-07	4.888E-08	3.027E-08	1.610E-08	1.023E-08	7.164E-09	5.335E-09	4.145E-09	3.322E-09	2.726E-09	2.279E-09
SSW	4.509E-08	2.162E-08	1.321E-08	6.886E-09	4.312E-09	2.984E-09	2.201E-09	1.696E-09	1.349E-09	1.100E-09	9.140E-10
SW	3.427E-08	1.654E-08	1.016E-08	5.344E-09	3.375E-09	2.352E-09	1.745E-09	1.351E-09	1.080E-09	8.841E-10	7.377E-10
WSW	1.519E-08	7.354E-09	4.528E-09	2.395E-09	1.520E-09	1.064E-09	7.919E-10	6.149E-10	4.926E-10	4.041E-10	3.377E-10
W	1.336E-08	6.532E-09	4.051E-09	2.165E-09	1.384E-09	9.740E-10	7.285E-10	5.682E-10	4.570E-10	3.763E-10	3.156E-10
WNW	3.148E-08	1.524E-08	9.376E-09	4.944E-09	3.124E-09	2.178E-09	1.616E-09	1.252E-09	1.001E-09	8.198E-10	6.842E-10
NW	5.660E-08	2.744E-08	1.690E-08	8.931E-09	5.654E-09	3.949E-09	2.935E-09	2.276E-09	1.822E-09	1.494E-09	1.249E-09
NNW	1.129E-07	5.526E-08	3.428E-08	1.828E-08	1.165E-08	8.181E-09	6.105E-09	4.752E-09	3.815E-09	3.136E-09	2.626E-09
N	1.889E-07	9.356E-08	5.850E-08	3.156E-08	2.026E-08	1.430E-08	1.072E-08	8.377E-09	6.746E-09	5.560E-09	4.667E-09
NNE	6.264E-08	3.061E-08	1.896E-08	1.010E-08	6.437E-09	4.518E-09	3.370E-09	2.622E-09	2.104E-09	1.729E-09	1.447E-09
NE	5.487E-08	2.732E-08	1.715E-08	9.303E-09	6.002E-09	4.252E-09	3.195E-09	2.501E-09	2.018E-09	1.665E-09	1.399E-09
ENE	3.620E-08	1.817E-08	1.147E-08	6.270E-09	4.069E-09	2.895E-09	2.184E-09	1.715E-09	1.387E-09	1.147E-09	9.657E-10
E	3.016E-08	1.512E-08	9.533E-09	5.199E-09	3.362E-09	2.386E-09	1.795E-09	1.407E-09	1.135E-09	9.373E-10	7.878E-10
ESE	5.076E-08	2.517E-08	1.574E-08	8.489E-09	5.446E-09	3.841E-09	2.876E-09	2.245E-09	1.806E-09	1.487E-09	1.247E-09
SE	7.500E-08	3.751E-08	2.362E-08	1.286E-08	8.311E-09	5.895E-09	4.435E-09	3.475E-09	2.805E-09	2.316E-09	1.947E-09
SSE	1.537E-07	7.690E-08	4.841E-08	2.634E-08	1.700E-08	1.205E-08	9.055E-09	7.091E-09	5.721E-09	4.723E-09	3.970E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.236E-06	1.399E-06	4.168E-07	2.042E-07	1.236E-07	5.199E-08	1.664E-08	7.250E-09	4.171E-09	2.737E-09
SSW	2.973E-06	6.692E-07	1.941E-07	9.359E-08	5.596E-08	2.310E-08	7.147E-09	3.025E-09	1.708E-09	1.105E-09
SW	2.252E-06	5.016E-07	1.462E-07	7.078E-08	4.246E-08	1.764E-08	5.538E-09	2.382E-09	1.360E-09	8.879E-10
WSW	1.011E-06	2.215E-07	6.456E-08	3.130E-08	1.880E-08	7.839E-09	2.480E-09	1.077E-09	6.189E-10	4.057E-10
W	8.688E-07	1.906E-07	5.607E-08	2.734E-08	1.650E-08	6.947E-09	2.237E-09	9.851E-10	5.717E-10	3.778E-10
WNW	2.033E-06	4.555E-07	1.335E-07	6.482E-08	3.897E-08	1.624E-08	5.120E-09	2.206E-09	1.261E-09	8.233E-10
NW	3.627E-06	8.157E-07	2.396E-07	1.164E-07	7.004E-08	2.924E-08	9.246E-09	3.998E-09	2.291E-09	1.500E-09
NNW	7.036E-06	1.577E-06	4.696E-07	2.302E-07	1.393E-07	5.875E-08	1.889E-08	8.276E-09	4.781E-09	3.148E-09
N	1.120E-05	2.528E-06	7.681E-07	3.808E-07	2.323E-07	9.917E-08	3.253E-08	1.446E-08	8.426E-09	5.581E-09
NNE	3.937E-06	8.854E-07	2.621E-07	1.281E-07	7.736E-08	3.255E-08	1.044E-08	4.571E-09	2.639E-09	1.736E-09
NE	3.220E-06	7.210E-07	2.209E-07	1.100E-07	6.737E-08	2.892E-08	9.579E-09	4.296E-09	2.515E-09	1.671E-09
ENE	2.084E-06	4.625E-07	1.436E-07	7.204E-08	4.434E-08	1.920E-08	6.446E-09	2.924E-09	1.724E-09	1.151E-09
E	1.677E-06	3.836E-07	1.195E-07	6.002E-08	3.694E-08	1.598E-08	5.346E-09	2.410E-09	1.414E-09	9.406E-10
ESE	2.901E-06	6.708E-07	2.054E-07	1.021E-07	6.239E-08	2.667E-08	8.748E-09	3.883E-09	2.258E-09	1.492E-09
SE	4.275E-06	9.640E-07	2.987E-07	1.496E-07	9.195E-08	3.967E-08	1.323E-08	5.955E-09	3.494E-09	2.325E-09
SSE	8.720E-06	1.975E-06	6.121E-07	3.066E-07	1.885E-07	8.131E-08	2.709E-08	1.217E-08	7.130E-09	4.740E-09

VENTS GROUND LEVEL RELEASES - APR-JUN 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.974E-07	6.675E-08	3.428E-08	1.629E-08	5.853E-09	2.903E-09	1.709E-09	1.119E-09	7.875E-10	5.836E-10	4.497E-10
SSW	8.414E-08	2.845E-08	1.461E-08	6.945E-09	2.495E-09	1.237E-09	7.285E-10	4.770E-10	3.356E-10	2.487E-10	1.917E-10
SW	6.904E-08	2.335E-08	1.199E-08	5.699E-09	2.047E-09	1.015E-09	5.977E-10	3.914E-10	2.754E-10	2.041E-10	1.573E-10
WSW	2.913E-08	9.849E-09	5.057E-09	2.404E-09	8.636E-10	4.283E-10	2.522E-10	1.651E-10	1.162E-10	8.610E-11	6.635E-11
W	3.452E-08	1.167E-08	5.993E-09	2.849E-09	1.023E-09	5.076E-10	2.989E-10	1.957E-10	1.377E-10	1.021E-10	7.864E-11
WNW	7.335E-08	2.481E-08	1.274E-08	6.055E-09	2.175E-09	1.079E-09	6.351E-10	4.159E-10	2.926E-10	2.169E-10	1.671E-10
NW	1.672E-07	5.654E-08	2.903E-08	1.380E-08	4.958E-09	2.459E-09	1.448E-09	9.479E-10	6.670E-10	4.943E-10	3.809E-10
NNW	3.279E-07	1.109E-07	5.694E-08	2.707E-08	9.723E-09	4.822E-09	2.839E-09	1.859E-09	1.308E-09	9.695E-10	7.471E-10
N	5.318E-07	1.798E-07	9.234E-08	4.390E-08	1.577E-08	7.820E-09	4.604E-09	3.015E-09	2.121E-09	1.572E-09	1.212E-09
NNE	1.499E-07	5.070E-08	2.603E-08	1.238E-08	4.446E-09	2.205E-09	1.298E-09	8.501E-10	5.981E-10	4.433E-10	3.416E-10
NE	8.738E-08	2.955E-08	1.517E-08	7.212E-09	2.591E-09	1.285E-09	7.565E-10	4.954E-10	3.486E-10	2.583E-10	1.991E-10
ENE	5.825E-08	1.970E-08	1.011E-08	4.808E-09	1.727E-09	8.565E-10	5.043E-10	3.302E-10	2.324E-10	1.722E-10	1.327E-10
E	3.883E-08	1.313E-08	6.743E-09	3.206E-09	1.151E-09	5.710E-10	3.362E-10	2.202E-10	1.549E-10	1.148E-10	8.847E-11
ESE	8.846E-08	2.991E-08	1.536E-08	7.302E-09	2.623E-09	1.301E-09	7.659E-10	5.015E-10	3.529E-10	2.615E-10	2.015E-10
SE	1.219E-07	4.122E-08	2.116E-08	1.006E-08	3.614E-09	1.792E-09	1.055E-09	6.911E-10	4.863E-10	3.604E-10	2.777E-10
SSE	2.567E-07	8.682E-08	4.458E-08	2.119E-08	7.612E-09	3.775E-09	2.223E-09	1.456E-09	1.024E-09	7.590E-10	5.849E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	3.573E-10	1.587E-10	9.615E-11	4.860E-11	2.941E-11	1.972E-11	1.413E-11	1.061E-11	8.250E-12	6.590E-12	5.379E-12
SSW	1.523E-10	6.765E-11	4.098E-11	2.071E-11	1.254E-11	8.406E-12	6.023E-12	4.523E-12	3.516E-12	2.809E-12	2.293E-12
SW	1.250E-10	5.551E-11	3.362E-11	1.700E-11	1.029E-11	6.897E-12	4.942E-12	3.711E-12	2.885E-12	2.305E-12	1.881E-12
WSW	5.271E-11	2.342E-11	1.419E-11	7.170E-12	4.340E-12	2.910E-12	2.085E-12	1.566E-12	1.217E-12	9.723E-13	7.936E-13
W	6.248E-11	2.775E-11	1.681E-11	8.498E-12	5.143E-12	3.448E-12	2.471E-12	1.855E-12	1.443E-12	1.152E-12	9.406E-13
WNW	1.328E-10	5.898E-11	3.573E-11	1.806E-11	1.093E-11	7.328E-12	5.251E-12	3.943E-12	3.066E-12	2.449E-12	1.999E-12
NW	3.026E-10	1.344E-10	8.143E-11	4.116E-11	2.491E-11	1.670E-11	1.197E-11	8.987E-12	6.988E-12	5.582E-12	4.556E-12
NNW	5.935E-10	2.637E-10	1.597E-10	8.073E-11	4.886E-11	3.276E-11	2.347E-11	1.763E-11	1.371E-11	1.095E-11	8.936E-12
N	9.625E-10	4.276E-10	2.590E-10	1.309E-10	7.924E-11	5.313E-11	3.807E-11	2.859E-11	2.223E-11	1.775E-11	1.449E-11
NNE	2.714E-10	1.206E-10	7.303E-11	3.691E-11	2.234E-11	1.498E-11	1.073E-11	8.060E-12	6.267E-12	5.006E-12	4.086E-12
NE	1.581E-10	7.025E-11	4.256E-11	2.151E-11	1.302E-11	8.729E-12	6.255E-12	4.697E-12	3.652E-12	2.917E-12	2.381E-12
ENE	1.054E-10	4.684E-11	2.837E-11	1.434E-11	8.679E-12	5.819E-12	4.170E-12	3.131E-12	2.434E-12	1.945E-12	1.587E-12
E	7.029E-11	3.122E-11	1.891E-11	9.560E-12	5.786E-12	3.879E-12	2.780E-12	2.087E-12	1.623E-12	1.296E-12	1.058E-12
ESE	1.601E-10	7.112E-11	4.308E-11	2.178E-11	1.318E-11	8.837E-12	6.332E-12	4.755E-12	3.697E-12	2.953E-12	2.410E-12
SE	2.206E-10	9.801E-11	5.937E-11	3.001E-11	1.816E-11	1.218E-11	8.726E-12	6.552E-12	5.094E-12	4.069E-12	3.322E-12
SSE	4.647E-10	2.064E-10	1.250E-10	6.320E-11	3.825E-11	2.565E-11	1.838E-11	1.380E-11	1.073E-11	8.571E-12	6.996E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.350E-08	6.862E-09	1.791E-09	8.046E-10	4.552E-10	1.750E-10	5.064E-11	2.007E-11	1.072E-11	6.634E-12
SSW	1.428E-08	2.925E-09	7.636E-10	3.429E-10	1.940E-10	7.460E-11	2.158E-11	8.554E-12	4.568E-12	2.827E-12
SW	1.172E-08	2.400E-09	6.265E-10	2.814E-10	1.592E-10	6.121E-11	1.771E-11	7.019E-12	3.748E-12	2.320E-12
WSW	4.943E-09	1.012E-09	2.643E-10	1.187E-10	6.715E-11	2.582E-11	7.471E-12	2.961E-12	1.581E-12	9.787E-13
W	5.858E-09	1.200E-09	3.133E-10	1.407E-10	7.959E-11	3.061E-11	8.855E-12	3.509E-12	1.874E-12	1.160E-12
WNW	1.245E-08	2.550E-09	6.657E-10	2.990E-10	1.691E-10	6.504E-11	1.882E-11	7.457E-12	3.982E-12	2.465E-12
NW	2.838E-08	5.812E-09	1.517E-09	6.815E-10	3.855E-10	1.483E-10	4.289E-11	1.700E-11	9.077E-12	5.619E-12
NNW	5.565E-08	1.140E-08	2.976E-09	1.337E-09	7.561E-10	2.908E-10	8.412E-11	3.334E-11	1.780E-11	1.102E-11
N	9.025E-08	1.849E-08	4.826E-09	2.168E-09	1.226E-09	4.715E-10	1.364E-10	5.407E-11	2.887E-11	1.787E-11
NNE	2.545E-08	5.212E-09	1.361E-09	6.111E-10	3.457E-10	1.329E-10	3.846E-11	1.524E-11	8.140E-12	5.039E-12
NE	1.483E-08	3.037E-09	7.929E-10	3.561E-10	2.015E-10	7.747E-11	2.241E-11	8.883E-12	4.744E-12	2.936E-12
ENE	9.886E-09	2.025E-09	5.286E-10	2.374E-10	1.343E-10	5.165E-11	1.494E-11	5.922E-12	3.162E-12	1.957E-12
E	6.590E-09	1.350E-09	3.524E-10	1.583E-10	8.954E-11	3.443E-11	9.961E-12	3.948E-12	2.108E-12	1.305E-12
ESE	1.501E-08	3.075E-09	8.027E-10	3.605E-10	2.040E-10	7.843E-11	2.269E-11	8.993E-12	4.802E-12	2.972E-12
SE	2.069E-08	4.237E-09	1.106E-09	4.968E-10	2.811E-10	1.081E-10	3.127E-11	1.239E-11	6.618E-12	4.096E-12
SSE	4.357E-08	8.925E-09	2.330E-09	1.046E-09	5.920E-10	2.276E-10	6.586E-11	2.610E-11	1.394E-11	8.627E-12

VENTS GROUND LEVEL RELEASES - APR-JUN 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	6.2E-06	6.2E-06	5.5E-06	2.9E-08
A	Site Boundary	SSW	.82	2.8E-06	2.8E-06	2.4E-06	1.1E-08
A	Site Boundary	SW	.97	1.4E-06	1.4E-06	1.2E-06	6.1E-09
A	Site Boundary	WSW	.93	7.0E-07	6.9E-07	6.1E-07	2.9E-09
A	Site Boundary	W	.91	6.2E-07	6.2E-07	5.4E-07	3.6E-09
A	Site Boundary	WNW	.94	1.4E-06	1.4E-06	1.2E-06	7.2E-09
A	Site Boundary	NW	.81	3.5E-06	3.5E-06	3.1E-06	2.4E-08
A	Site Boundary	NNW	.69	9.3E-06	9.2E-06	8.3E-06	6.6E-08
A	Site Boundary	N	.67	1.5E-05	1.5E-05	1.4E-05	1.1E-07
A	Site Boundary	NNE	.60	6.3E-06	6.3E-06	5.7E-06	3.8E-08
A	Site Boundary	NE	.62	4.9E-06	4.9E-06	4.4E-06	2.1E-08
A	Site Boundary	ENE	.59	3.5E-06	3.5E-06	3.2E-06	1.5E-08
A	Site Boundary	E	.53	3.3E-06	3.3E-06	3.0E-06	1.2E-08
A	Site Boundary	ESE	.54	5.4E-06	5.4E-06	4.9E-06	2.7E-08
A	Site Boundary	SE	.65	6.1E-06	6.0E-06	5.4E-06	2.7E-08
A	Site Boundary	SSE	.81	8.2E-06	8.2E-06	7.3E-06	3.6E-08
A	Nearest Res	SW	1.30	7.1E-07	7.1E-07	6.1E-07	2.9E-09
A	Nearest Res	WSW	2.50	7.7E-08	7.6E-08	6.2E-08	2.5E-10
A	Nearest Res	W	1.00	4.9E-07	4.9E-07	4.3E-07	2.9E-09
A	Nearest Res	WNW	1.70	3.6E-07	3.6E-07	3.0E-07	1.6E-09
A	Nearest Res	NW	.90	2.7E-06	2.7E-06	2.4E-06	1.8E-08
A	Nearest Res	NNW	1.90	9.8E-07	9.8E-07	8.2E-07	5.5E-09
A	Nearest Res	N	3.00	6.4E-07	6.4E-07	5.1E-07	3.0E-09
A	Nearest Res	ENE	1.70	3.7E-07	3.7E-07	3.1E-07	1.3E-09
A	Nearest Res	E	1.80	2.8E-07	2.7E-07	2.3E-07	7.4E-10
A	Nearest Res	ESE	2.30	2.9E-07	2.9E-07	2.4E-07	9.3E-10
A	Nearest Cow	NNW	3.50	2.9E-07	2.9E-07	2.3E-07	1.3E-09
A	Nearest Garde	SW	1.30	7.1E-07	7.1E-07	6.1E-07	2.9E-09
A	Nearest Garde	WSW	1.90	1.4E-07	1.4E-07	1.1E-07	4.8E-10
A	Nearest Garde	WNW	2.40	1.7E-07	1.7E-07	1.4E-07	7.0E-10
A	Nearest Garde	NW	2.90	2.1E-07	2.1E-07	1.7E-07	1.0E-09
A	Nearest Garde	NNW	1.90	9.8E-07	9.8E-07	8.2E-07	5.5E-09
A	Nearest Garde	N	3.00	6.4E-07	6.4E-07	5.1E-07	3.0E-09
A	Nearest Garde	ESE	2.30	2.9E-07	2.9E-07	2.4E-07	9.3E-10

Atmospheric Diffusion Estimates

Ground-Level Releases

January-June 2002

VENTS GROUND LEVEL RELEASES - JAN-JUN 2002
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.465E-05	1.175E-05	6.321E-06	3.169E-06	1.268E-06	6.843E-07	4.327E-07	3.014E-07	2.241E-07	1.745E-07	1.407E-07
SSW	1.778E-05	6.069E-06	3.290E-06	1.655E-06	6.610E-07	3.564E-07	2.252E-07	1.568E-07	1.165E-07	9.071E-08	7.312E-08
SW	1.075E-05	3.723E-06	2.010E-06	1.005E-06	3.971E-07	2.125E-07	1.335E-07	9.253E-08	6.849E-08	5.315E-08	4.272E-08
WSW	8.723E-06	2.895E-06	1.522E-06	7.546E-07	3.055E-07	1.664E-07	1.060E-07	7.433E-08	5.556E-08	4.348E-08	3.521E-08
W	5.687E-06	1.867E-06	9.821E-07	4.878E-07	1.973E-07	1.074E-07	6.837E-08	4.791E-08	3.580E-08	2.801E-08	2.268E-08
WNW	1.196E-05	4.064E-06	2.170E-06	1.082E-06	4.346E-07	2.354E-07	1.492E-07	1.042E-07	7.765E-08	6.059E-08	4.894E-08
NW	2.137E-05	6.930E-06	3.664E-06	1.831E-06	7.429E-07	4.051E-07	2.582E-07	1.810E-07	1.353E-07	1.059E-07	8.578E-08
NNW	5.462E-05	1.728E-05	9.025E-06	4.504E-06	1.863E-06	1.030E-06	6.630E-07	4.687E-07	3.527E-07	2.776E-07	2.260E-07
N	7.657E-05	2.411E-05	1.287E-05	6.498E-06	2.676E-06	1.474E-06	9.460E-07	6.672E-07	5.011E-07	3.937E-07	3.200E-07
NNE	3.946E-05	1.257E-05	6.747E-06	3.409E-06	1.387E-06	7.575E-07	4.833E-07	3.392E-07	2.538E-07	1.987E-07	1.610E-07
NE	2.850E-05	9.067E-06	4.839E-06	2.441E-06	9.967E-07	5.456E-07	3.487E-07	2.450E-07	1.835E-07	1.438E-07	1.166E-07
ENE	2.142E-05	6.750E-06	3.524E-06	1.758E-06	7.244E-07	3.993E-07	2.565E-07	1.810E-07	1.361E-07	1.070E-07	8.699E-08
E	1.618E-05	5.040E-06	2.717E-06	1.383E-06	5.678E-07	3.119E-07	1.999E-07	1.407E-07	1.056E-07	8.285E-08	6.726E-08
ESE	2.268E-05	7.314E-06	3.940E-06	1.993E-06	8.138E-07	4.454E-07	2.846E-07	2.000E-07	1.497E-07	1.173E-07	9.511E-08
SE	3.079E-05	1.008E-05	5.391E-06	2.709E-06	1.094E-06	5.949E-07	3.782E-07	2.646E-07	1.975E-07	1.543E-07	1.248E-07
SSE	4.926E-05	1.597E-05	8.523E-06	4.286E-06	1.741E-06	9.499E-07	6.055E-07	4.247E-07	3.175E-07	2.485E-07	2.012E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.166E-07	6.014E-08	3.907E-08	2.249E-08	1.527E-08	1.133E-08	8.888E-09	7.246E-09	6.076E-09	5.204E-09	4.532E-09
SSW	6.056E-08	3.119E-08	2.024E-08	1.163E-08	7.886E-09	5.845E-09	4.581E-09	3.732E-09	3.127E-09	2.676E-09	2.329E-09
SW	3.529E-08	1.801E-08	1.161E-08	6.617E-09	4.463E-09	3.295E-09	2.575E-09	2.092E-09	1.749E-09	1.494E-09	1.298E-09
WSW	2.928E-08	1.533E-08	1.007E-08	5.895E-09	4.052E-09	3.036E-09	2.401E-09	1.971E-09	1.662E-09	1.431E-09	1.252E-09
W	1.886E-08	9.880E-09	6.493E-09	3.801E-09	2.613E-09	1.958E-09	1.549E-09	1.272E-09	1.073E-09	9.238E-10	8.084E-10
WNW	4.061E-08	2.108E-08	1.376E-08	7.976E-09	5.441E-09	4.053E-09	3.190E-09	2.608E-09	2.192E-09	1.881E-09	1.642E-09
NW	7.134E-08	3.737E-08	2.455E-08	1.436E-08	9.863E-09	7.384E-09	5.837E-09	4.789E-09	4.037E-09	3.474E-09	3.039E-09
NNW	1.887E-07	1.004E-07	6.670E-08	3.958E-08	2.744E-08	2.069E-08	1.645E-08	1.356E-08	1.148E-08	9.916E-09	8.701E-09
N	2.669E-07	1.413E-07	9.346E-08	5.517E-08	3.810E-08	2.864E-08	2.272E-08	1.869E-08	1.579E-08	1.361E-08	1.193E-08
NNE	1.340E-07	7.027E-08	4.621E-08	2.706E-08	1.861E-08	1.395E-08	1.103E-08	9.054E-09	7.635E-09	6.572E-09	5.749E-09
NE	9.709E-08	5.101E-08	3.358E-08	1.970E-08	1.355E-08	1.016E-08	8.038E-09	6.600E-09	5.568E-09	4.794E-09	4.195E-09
ENE	7.261E-08	3.852E-08	2.554E-08	1.513E-08	1.048E-08	7.903E-09	6.282E-09	5.178E-09	4.383E-09	3.785E-09	3.321E-09
E	5.605E-08	2.957E-08	1.952E-08	1.149E-08	7.921E-09	5.947E-09	4.712E-09	3.872E-09	3.269E-09	2.816E-09	2.466E-09
ESE	7.917E-08	4.157E-08	2.735E-08	1.602E-08	1.100E-08	8.235E-09	6.508E-09	5.339E-09	4.499E-09	3.871E-09	3.384E-09
SE	1.037E-07	5.400E-08	3.534E-08	2.056E-08	1.407E-08	1.051E-08	8.286E-09	6.785E-09	5.711E-09	4.907E-09	4.286E-09
SSE	1.673E-07	8.758E-08	5.750E-08	3.359E-08	2.304E-08	1.723E-08	1.361E-08	1.116E-08	9.399E-09	8.084E-09	7.067E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.126E-06	1.431E-06	4.472E-07	2.273E-07	1.418E-07	6.332E-08	2.297E-08	1.140E-08	7.269E-09	5.213E-09
SSW	3.181E-06	7.464E-07	2.328E-07	1.182E-07	7.368E-08	3.285E-08	1.188E-08	5.884E-09	3.744E-09	2.681E-09
SW	1.944E-06	4.502E-07	1.382E-07	6.951E-08	4.305E-08	1.900E-08	6.770E-09	3.319E-09	2.099E-09	1.497E-09
WSW	1.486E-06	3.435E-07	1.095E-07	5.632E-08	3.547E-08	1.610E-08	6.004E-09	3.053E-09	1.976E-09	1.433E-09
W	9.591E-07	2.219E-07	7.059E-08	3.629E-08	2.284E-08	1.037E-08	3.871E-09	1.969E-09	1.275E-09	9.252E-10
WNW	2.107E-06	4.899E-07	1.542E-07	7.874E-08	4.931E-08	2.217E-08	8.135E-09	4.078E-09	2.616E-09	1.885E-09
NW	3.575E-06	8.346E-07	2.665E-07	1.372E-07	8.640E-08	3.922E-08	1.463E-08	7.426E-09	4.802E-09	3.480E-09
NNW	8.849E-06	2.080E-06	6.831E-07	3.572E-07	2.275E-07	1.051E-07	4.021E-08	2.080E-08	1.360E-08	9.930E-09
N	1.253E-05	2.991E-06	9.752E-07	5.076E-07	3.222E-07	1.479E-07	5.609E-08	2.879E-08	1.873E-08	1.363E-08
NNE	6.557E-06	1.557E-06	4.988E-07	2.572E-07	1.622E-07	7.373E-08	2.756E-08	1.402E-08	9.078E-09	6.582E-09
NE	4.713E-06	1.117E-06	3.598E-07	1.860E-07	1.174E-07	5.350E-08	2.005E-08	1.022E-08	6.618E-09	4.801E-09
ENE	3.456E-06	8.096E-07	2.644E-07	1.378E-07	8.759E-08	4.033E-08	1.538E-08	7.943E-09	5.191E-09	3.790E-09
E	2.640E-06	6.353E-07	2.061E-07	1.070E-07	6.773E-08	3.099E-08	1.169E-08	5.979E-09	3.882E-09	2.821E-09
ESE	3.825E-06	9.122E-07	2.936E-07	1.517E-07	9.579E-08	4.361E-08	1.631E-08	8.282E-09	5.353E-09	3.877E-09
SE	5.240E-06	1.231E-06	3.906E-07	2.002E-07	1.257E-07	5.674E-08	2.096E-08	1.057E-08	6.805E-09	4.915E-09
SSE	8.294E-06	1.955E-06	6.250E-07	3.218E-07	2.027E-07	9.193E-08	3.421E-08	1.733E-08	1.119E-08	8.097E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 2002
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.462E-05	1.173E-05	6.305E-06	3.158E-06	1.261E-06	6.794E-07	4.288E-07	2.982E-07	2.213E-07	1.720E-07	1.385E-07
SSW	1.777E-05	6.057E-06	3.281E-06	1.648E-06	6.571E-07	3.536E-07	2.230E-07	1.549E-07	1.149E-07	8.924E-08	7.178E-08
SW	1.074E-05	3.717E-06	2.005E-06	1.002E-06	3.951E-07	2.111E-07	1.324E-07	9.156E-08	6.765E-08	5.240E-08	4.204E-08
WSW	8.713E-06	2.888E-06	1.517E-06	7.513E-07	3.035E-07	1.650E-07	1.049E-07	7.334E-08	5.469E-08	4.270E-08	3.450E-08
W	5.682E-06	1.864E-06	9.795E-07	4.861E-07	1.962E-07	1.066E-07	6.775E-08	4.738E-08	3.534E-08	2.759E-08	2.229E-08
WNW	1.195E-05	4.057E-06	2.164E-06	1.078E-06	4.322E-07	2.337E-07	1.479E-07	1.031E-07	7.663E-08	5.968E-08	4.811E-08
NW	2.135E-05	6.917E-06	3.654E-06	1.824E-06	7.388E-07	4.021E-07	2.557E-07	1.790E-07	1.335E-07	1.043E-07	8.430E-08
NNW	5.456E-05	1.724E-05	9.000E-06	4.487E-06	1.853E-06	1.022E-06	6.566E-07	4.632E-07	3.479E-07	2.732E-07	2.219E-07
N	7.649E-05	2.407E-05	1.283E-05	6.475E-06	2.661E-06	1.463E-06	9.373E-07	6.597E-07	4.945E-07	3.878E-07	3.145E-07
NNE	3.943E-05	1.255E-05	6.729E-06	3.397E-06	1.379E-06	7.520E-07	4.789E-07	3.355E-07	2.505E-07	1.958E-07	1.583E-07
NE	2.847E-05	9.049E-06	4.825E-06	2.431E-06	9.906E-07	5.412E-07	3.451E-07	2.420E-07	1.808E-07	1.414E-07	1.144E-07
ENE	2.140E-05	6.736E-06	3.513E-06	1.751E-06	7.199E-07	3.959E-07	2.538E-07	1.787E-07	1.340E-07	1.052E-07	8.531E-08
E	1.617E-05	5.030E-06	2.709E-06	1.377E-06	5.643E-07	3.093E-07	1.978E-07	1.389E-07	1.040E-07	8.143E-08	6.596E-08
ESE	2.266E-05	7.301E-06	3.929E-06	1.986E-06	8.091E-07	4.420E-07	2.818E-07	1.976E-07	1.477E-07	1.155E-07	9.342E-08
SE	3.076E-05	1.006E-05	5.378E-06	2.700E-06	1.089E-06	5.908E-07	3.749E-07	2.618E-07	1.950E-07	1.521E-07	1.228E-07
SSE	4.922E-05	1.594E-05	8.501E-06	4.271E-06	1.732E-06	9.431E-07	6.001E-07	4.200E-07	3.134E-07	2.448E-07	1.979E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.145E-07	5.848E-08	3.763E-08	2.124E-08	1.414E-08	1.028E-08	7.911E-09	6.323E-09	5.198E-09	4.364E-09	3.726E-09
SSW	5.932E-08	3.023E-08	1.941E-08	1.092E-08	7.239E-09	5.249E-09	4.025E-09	3.208E-09	2.629E-09	2.201E-09	1.874E-09
SW	3.466E-08	1.752E-08	1.120E-08	6.262E-09	4.145E-09	3.003E-09	2.303E-09	1.836E-09	1.506E-09	1.262E-09	1.076E-09
WSW	2.863E-08	1.482E-08	9.620E-09	5.498E-09	3.690E-09	2.700E-09	2.085E-09	1.671E-09	1.376E-09	1.157E-09	9.887E-10
W	1.850E-08	9.597E-09	6.243E-09	3.581E-09	2.411E-09	1.770E-09	1.371E-09	1.102E-09	9.105E-10	7.677E-10	6.578E-10
WNW	3.985E-08	2.048E-08	1.323E-08	7.515E-09	5.023E-09	3.665E-09	2.826E-09	2.263E-09	1.863E-09	1.566E-09	1.338E-09
NW	6.997E-08	3.629E-08	2.360E-08	1.352E-08	9.097E-09	6.672E-09	5.166E-09	4.151E-09	3.428E-09	2.890E-09	2.476E-09
NNW	1.850E-07	9.741E-08	6.401E-08	3.719E-08	2.524E-08	1.863E-08	1.450E-08	1.170E-08	9.692E-09	8.193E-09	7.037E-09
N	2.619E-07	1.372E-07	8.990E-08	5.201E-08	3.521E-08	2.595E-08	2.017E-08	1.626E-08	1.347E-08	1.138E-08	9.775E-09
NNE	1.315E-07	6.832E-08	4.450E-08	2.556E-08	1.724E-08	1.268E-08	9.836E-09	7.920E-09	6.552E-09	5.533E-09	4.749E-09
NE	9.505E-08	4.940E-08	3.217E-08	1.845E-08	1.242E-08	9.107E-09	7.048E-09	5.661E-09	4.671E-09	3.934E-09	3.368E-09
ENE	7.105E-08	3.728E-08	2.443E-08	1.415E-08	9.588E-09	7.068E-09	5.493E-09	4.427E-09	3.664E-09	3.094E-09	2.654E-09
E	5.485E-08	2.862E-08	1.868E-08	1.075E-08	7.248E-09	5.322E-09	4.123E-09	3.313E-09	2.735E-09	2.305E-09	1.974E-09
ESE	7.760E-08	4.032E-08	2.625E-08	1.505E-08	1.012E-08	7.417E-09	5.739E-09	4.608E-09	3.802E-09	3.202E-09	2.741E-09
SE	1.018E-07	5.251E-08	3.403E-08	1.941E-08	1.302E-08	9.530E-09	7.366E-09	5.911E-09	4.876E-09	4.106E-09	3.515E-09
SSE	1.642E-07	8.511E-08	5.532E-08	3.167E-08	2.129E-08	1.560E-08	1.208E-08	9.701E-09	8.007E-09	6.748E-09	5.780E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.111E-06	1.424E-06	4.434E-07	2.245E-07	1.395E-07	6.166E-08	2.173E-08	1.036E-08	6.348E-09	4.375E-09
SSW	3.172E-06	7.424E-07	2.306E-07	1.165E-07	7.234E-08	3.188E-08	1.117E-08	5.290E-09	3.221E-09	2.207E-09
SW	1.940E-06	4.481E-07	1.370E-07	6.867E-08	4.238E-08	1.852E-08	6.418E-09	3.027E-09	1.844E-09	1.266E-09
WSW	1.481E-06	3.415E-07	1.083E-07	5.545E-08	3.475E-08	1.558E-08	5.610E-09	2.718E-09	1.677E-09	1.160E-09
W	9.567E-07	2.208E-07	6.996E-08	3.583E-08	2.246E-08	1.009E-08	3.653E-09	1.781E-09	1.106E-09	7.693E-10
WNW	2.102E-06	4.875E-07	1.528E-07	7.772E-08	4.848E-08	2.156E-08	7.678E-09	3.691E-09	2.271E-09	1.569E-09
NW	3.566E-06	8.304E-07	2.641E-07	1.354E-07	8.492E-08	3.813E-08	1.380E-08	6.716E-09	4.166E-09	2.896E-09
NNW	8.826E-06	2.069E-06	6.766E-07	3.524E-07	2.235E-07	1.020E-07	3.784E-08	1.874E-08	1.173E-08	8.209E-09
N	1.250E-05	2.976E-06	9.664E-07	5.011E-07	3.167E-07	1.439E-07	5.296E-08	2.611E-08	1.631E-08	1.140E-08
NNE	6.541E-06	1.549E-06	4.944E-07	2.539E-07	1.595E-07	7.177E-08	2.607E-08	1.276E-08	7.946E-09	5.545E-09
NE	4.700E-06	1.111E-06	3.561E-07	1.833E-07	1.152E-07	5.189E-08	1.882E-08	9.167E-09	5.680E-09	3.943E-09
ENE	3.446E-06	8.050E-07	2.617E-07	1.358E-07	8.591E-08	3.907E-08	1.441E-08	7.110E-09	4.441E-09	3.100E-09
E	2.633E-06	6.316E-07	2.040E-07	1.054E-07	6.643E-08	3.003E-08	1.095E-08	5.356E-09	3.324E-09	2.310E-09
ESE	3.815E-06	9.075E-07	2.908E-07	1.497E-07	9.409E-08	4.235E-08	1.535E-08	7.467E-09	4.624E-09	3.209E-09
SE	5.228E-06	1.226E-06	3.872E-07	1.978E-07	1.237E-07	5.525E-08	1.982E-08	9.596E-09	5.932E-09	4.115E-09
SSE	8.274E-06	1.946E-06	6.195E-07	3.177E-07	1.993E-07	8.945E-08	3.231E-08	1.571E-08	9.734E-09	6.763E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 2002
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.278E-05	1.072E-05	5.629E-06	2.771E-06	1.075E-06	5.655E-07	3.496E-07	2.387E-07	1.742E-07	1.334E-07	1.059E-07
SSW	1.683E-05	5.539E-06	2.930E-06	1.447E-06	5.604E-07	2.945E-07	1.819E-07	1.241E-07	9.055E-08	6.931E-08	5.500E-08
SW	1.017E-05	3.398E-06	1.790E-06	8.789E-07	3.368E-07	1.756E-07	1.079E-07	7.328E-08	5.326E-08	4.063E-08	3.215E-08
WSW	8.253E-06	2.642E-06	1.355E-06	6.597E-07	2.590E-07	1.375E-07	8.562E-08	5.882E-08	4.316E-08	3.321E-08	2.647E-08
W	5.381E-06	1.704E-06	8.745E-07	4.266E-07	1.673E-07	8.874E-08	5.524E-08	3.794E-08	2.783E-08	2.141E-08	1.706E-08
WNW	1.132E-05	3.710E-06	1.932E-06	9.462E-07	3.685E-07	1.945E-07	1.206E-07	8.252E-08	6.036E-08	4.631E-08	3.683E-08
NW	2.022E-05	6.325E-06	3.262E-06	1.601E-06	6.299E-07	3.347E-07	2.086E-07	1.433E-07	1.052E-07	8.095E-08	6.454E-08
NNW	5.167E-05	1.577E-05	8.036E-06	3.938E-06	1.580E-06	8.509E-07	5.356E-07	3.710E-07	2.742E-07	2.122E-07	1.700E-07
N	7.244E-05	2.201E-05	1.146E-05	5.683E-06	2.269E-06	1.218E-06	7.643E-07	5.282E-07	3.896E-07	3.010E-07	2.408E-07
NNE	3.734E-05	1.147E-05	6.008E-06	2.981E-06	1.176E-06	6.259E-07	3.905E-07	2.686E-07	1.973E-07	1.519E-07	1.212E-07
NE	2.697E-05	8.275E-06	4.309E-06	2.134E-06	8.450E-07	4.508E-07	2.816E-07	1.940E-07	1.426E-07	1.099E-07	8.770E-08
ENE	2.026E-05	6.160E-06	3.137E-06	1.537E-06	6.141E-07	3.298E-07	2.072E-07	1.433E-07	1.057E-07	8.173E-08	6.541E-08
E	1.531E-05	4.600E-06	2.419E-06	1.209E-06	4.814E-07	2.577E-07	1.614E-07	1.114E-07	8.203E-08	6.329E-08	5.057E-08
ESE	2.146E-05	6.676E-06	3.508E-06	1.743E-06	6.900E-07	3.680E-07	2.299E-07	1.583E-07	1.164E-07	8.966E-08	7.155E-08
SE	2.913E-05	9.197E-06	4.801E-06	2.369E-06	9.282E-07	4.917E-07	3.056E-07	2.096E-07	1.535E-07	1.180E-07	9.392E-08
SSE	4.661E-05	1.457E-05	7.590E-06	3.748E-06	1.476E-06	7.850E-07	4.893E-07	3.363E-07	2.468E-07	1.899E-07	1.514E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.647E-08	4.206E-08	2.597E-08	1.376E-08	8.724E-09	6.098E-09	4.535E-09	3.519E-09	2.818E-09	2.311E-09	1.931E-09
SSW	4.488E-08	2.179E-08	1.344E-08	7.105E-09	4.495E-09	3.137E-09	2.329E-09	1.805E-09	1.443E-09	1.182E-09	9.863E-10
SW	2.617E-08	1.260E-08	7.721E-09	4.051E-09	2.552E-09	1.776E-09	1.316E-09	1.018E-09	8.127E-10	6.648E-10	5.544E-10
WSW	2.169E-08	1.071E-08	6.680E-09	3.594E-09	2.304E-09	1.625E-09	1.217E-09	9.495E-10	7.639E-10	6.290E-10	5.275E-10
W	1.398E-08	6.908E-09	4.314E-09	2.324E-09	1.492E-09	1.053E-09	7.892E-10	6.165E-10	4.965E-10	4.091E-10	3.434E-10
WNW	3.011E-08	1.474E-08	9.143E-09	4.877E-09	3.106E-09	2.179E-09	1.625E-09	1.264E-09	1.015E-09	8.335E-10	6.976E-10
NW	5.289E-08	2.613E-08	1.631E-08	8.780E-09	5.629E-09	3.970E-09	2.973E-09	2.321E-09	1.868E-09	1.539E-09	1.291E-09
NNW	1.399E-07	7.019E-08	4.429E-08	2.418E-08	1.565E-08	1.111E-08	8.370E-09	6.565E-09	5.305E-09	4.384E-09	3.689E-09
N	1.979E-07	9.878E-08	6.210E-08	3.374E-08	2.176E-08	1.541E-08	1.158E-08	9.068E-09	7.315E-09	6.039E-09	5.076E-09
NNE	9.934E-08	4.915E-08	3.071E-08	1.656E-08	1.064E-08	7.510E-09	5.631E-09	4.400E-09	3.544E-09	2.921E-09	2.452E-09
NE	7.194E-08	3.564E-08	2.229E-08	1.202E-08	7.720E-09	5.450E-09	4.084E-09	3.190E-09	2.568E-09	2.116E-09	1.775E-09
ENE	5.379E-08	2.691E-08	1.694E-08	9.230E-09	5.969E-09	4.237E-09	3.189E-09	2.500E-09	2.019E-09	1.668E-09	1.403E-09
E	4.153E-08	2.065E-08	1.295E-08	7.009E-09	4.511E-09	3.189E-09	2.392E-09	1.870E-09	1.507E-09	1.242E-09	1.043E-09
ESE	5.868E-08	2.905E-08	1.816E-08	9.785E-09	6.274E-09	4.423E-09	3.312E-09	2.584E-09	2.079E-09	1.712E-09	1.436E-09
SE	7.687E-08	3.777E-08	2.349E-08	1.258E-08	8.039E-09	5.654E-09	4.226E-09	3.293E-09	2.647E-09	2.177E-09	1.824E-09
SSE	1.241E-07	6.124E-08	3.821E-08	2.054E-08	1.316E-08	9.269E-09	6.937E-09	5.412E-09	4.354E-09	3.584E-09	3.006E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
S	5.490E-06	1.225E-06	3.628E-07	1.771E-07	1.069E-07	4.478E-08	1.424E-08	6.173E-09	3.542E-09	2.320E-09
SSW	2.850E-06	6.392E-07	1.888E-07	9.205E-08	5.549E-08	2.321E-08	7.353E-09	3.176E-09	1.817E-09	1.187E-09
SW	1.743E-06	3.856E-07	1.121E-07	5.417E-08	3.245E-08	1.345E-08	4.200E-09	1.799E-09	1.025E-09	6.677E-10
WSW	1.332E-06	2.940E-07	8.873E-08	4.384E-08	2.670E-08	1.136E-08	3.707E-09	1.643E-09	9.551E-10	6.314E-10
W	8.598E-07	1.900E-07	5.725E-08	2.827E-08	1.721E-08	7.327E-09	2.396E-09	1.064E-09	6.201E-10	4.107E-10
WNW	1.889E-06	4.196E-07	1.251E-07	6.134E-08	3.715E-08	1.567E-08	5.038E-09	2.205E-09	1.272E-09	8.369E-10
NW	3.205E-06	7.146E-07	2.161E-07	1.069E-07	6.509E-08	2.771E-08	9.053E-09	4.014E-09	2.335E-09	1.545E-09
NNW	7.933E-06	1.780E-06	5.539E-07	2.782E-07	1.713E-07	7.417E-08	2.486E-08	1.123E-08	6.601E-09	4.400E-09
N	1.123E-05	2.560E-06	7.908E-07	3.954E-07	2.427E-07	1.045E-07	3.472E-08	1.557E-08	9.118E-09	6.060E-09
NNE	5.877E-06	1.333E-06	4.045E-07	2.004E-07	1.222E-07	5.211E-08	1.707E-08	7.592E-09	4.425E-09	2.932E-09
NE	4.224E-06	9.563E-07	2.917E-07	1.448E-07	8.843E-08	3.777E-08	1.239E-08	5.509E-09	3.208E-09	2.124E-09
ENE	3.098E-06	6.929E-07	2.143E-07	1.073E-07	6.594E-08	2.845E-08	9.495E-09	4.280E-09	2.514E-09	1.674E-09
E	2.366E-06	5.437E-07	1.671E-07	8.328E-08	5.099E-08	2.187E-08	7.219E-09	3.223E-09	1.881E-09	1.247E-09
ESE	3.428E-06	7.809E-07	2.381E-07	1.182E-07	7.215E-08	3.080E-08	1.009E-08	4.472E-09	2.600E-09	1.718E-09
SE	4.697E-06	1.054E-06	3.168E-07	1.560E-07	9.473E-08	4.011E-08	1.299E-08	5.719E-09	3.313E-09	2.186E-09
SSE	7.434E-06	1.674E-06	5.069E-07	2.507E-07	1.527E-07	6.497E-08	2.118E-08	9.373E-09	5.445E-09	3.598E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.875E-07	6.342E-08	3.256E-08	1.548E-08	5.561E-09	2.758E-09	1.624E-09	1.063E-09	7.481E-10	5.544E-10	4.273E-10
SSW	8.398E-08	2.840E-08	1.458E-08	6.932E-09	2.490E-09	1.235E-09	7.271E-10	4.761E-10	3.350E-10	2.483E-10	1.913E-10
SW	6.046E-08	2.045E-08	1.050E-08	4.991E-09	1.793E-09	8.890E-10	5.235E-10	3.428E-10	2.412E-10	1.787E-10	1.377E-10
WSW	3.247E-08	1.098E-08	5.638E-09	2.680E-09	9.627E-10	4.774E-10	2.811E-10	1.841E-10	1.295E-10	9.599E-11	7.397E-11
W	2.743E-08	9.276E-09	4.763E-09	2.264E-09	8.134E-10	4.034E-10	2.375E-10	1.555E-10	1.094E-10	8.110E-11	6.250E-11
WNW	6.046E-08	2.045E-08	1.050E-08	4.991E-09	1.793E-09	8.890E-10	5.235E-10	3.428E-10	2.412E-10	1.787E-10	1.377E-10
NW	1.142E-07	3.862E-08	1.983E-08	9.427E-09	3.386E-09	1.679E-09	9.888E-10	6.475E-10	4.556E-10	3.376E-10	2.602E-10
NNW	2.553E-07	8.633E-08	4.432E-08	2.107E-08	7.569E-09	3.754E-09	2.210E-09	1.447E-09	1.018E-09	7.547E-10	5.816E-10
N	4.036E-07	1.365E-07	7.008E-08	3.332E-08	1.197E-08	5.935E-09	3.495E-09	2.288E-09	1.610E-09	1.193E-09	9.196E-10
NNE	1.954E-07	6.607E-08	3.392E-08	1.613E-08	5.793E-09	2.873E-09	1.692E-09	1.108E-09	7.794E-10	5.776E-10	4.451E-10
NE	1.148E-07	3.881E-08	1.993E-08	9.473E-09	3.403E-09	1.688E-09	9.936E-10	6.506E-10	4.578E-10	3.393E-10	2.615E-10
ENE	8.509E-08	2.878E-08	1.477E-08	7.024E-09	2.523E-09	1.251E-09	7.368E-10	4.824E-10	3.395E-10	2.516E-10	1.939E-10
E	6.662E-08	2.253E-08	1.157E-08	5.499E-09	1.975E-09	9.796E-10	5.768E-10	3.777E-10	2.658E-10	1.970E-10	1.518E-10
ESE	1.176E-07	3.976E-08	2.041E-08	9.704E-09	3.486E-09	1.729E-09	1.018E-09	6.665E-10	4.690E-10	3.476E-10	2.678E-10
SE	2.066E-07	6.986E-08	3.587E-08	1.705E-08	6.125E-09	3.038E-09	1.789E-09	1.171E-09	8.241E-10	6.107E-10	4.706E-10
SSE	3.046E-07	1.030E-07	5.288E-08	2.514E-08	9.030E-09	4.478E-09	2.637E-09	1.727E-09	1.215E-09	9.003E-10	6.938E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	3.394E-10	1.508E-10	9.134E-11	4.617E-11	2.794E-11	1.874E-11	1.342E-11	1.008E-11	7.838E-12	6.261E-12	5.110E-12
SSW	1.520E-10	6.752E-11	4.090E-11	2.067E-11	1.251E-11	8.389E-12	6.011E-12	4.514E-12	3.510E-12	2.803E-12	2.288E-12
SW	1.094E-10	4.861E-11	2.945E-11	1.488E-11	9.009E-12	6.040E-12	4.328E-12	3.250E-12	2.527E-12	2.018E-12	1.648E-12
WSW	5.877E-11	2.611E-11	1.581E-11	7.993E-12	4.838E-12	3.244E-12	2.324E-12	1.745E-12	1.357E-12	1.084E-12	8.848E-13
W	4.965E-11	2.206E-11	1.336E-11	6.753E-12	4.087E-12	2.740E-12	1.964E-12	1.474E-12	1.146E-12	9.158E-13	7.475E-13
WNW	1.094E-10	4.861E-11	2.945E-11	1.488E-11	9.009E-12	6.040E-12	4.328E-12	3.250E-12	2.527E-12	2.018E-12	1.648E-12
NW	2.067E-10	9.182E-11	5.562E-11	2.811E-11	1.702E-11	1.141E-11	8.175E-12	6.139E-12	4.773E-12	3.813E-12	3.112E-12
NNW	4.620E-10	2.053E-10	1.243E-10	6.284E-11	3.804E-11	2.550E-11	1.827E-11	1.372E-11	1.067E-11	8.522E-12	6.956E-12
N	7.305E-10	3.245E-10	1.966E-10	9.937E-11	6.014E-11	4.032E-11	2.889E-11	2.170E-11	1.687E-11	1.348E-11	1.100E-11
NNE	3.536E-10	1.571E-10	9.516E-11	4.810E-11	2.911E-11	1.952E-11	1.399E-11	1.050E-11	8.166E-12	6.523E-12	5.324E-12
NE	2.077E-10	9.227E-11	5.590E-11	2.825E-11	1.710E-11	1.146E-11	8.215E-12	6.169E-12	4.796E-12	3.831E-12	3.127E-12
ENE	1.540E-10	6.842E-11	4.144E-11	2.095E-11	1.268E-11	8.501E-12	6.091E-12	4.574E-12	3.556E-12	2.841E-12	2.319E-12
E	1.206E-10	5.356E-11	3.245E-11	1.640E-11	9.926E-12	6.655E-12	4.769E-12	3.581E-12	2.784E-12	2.224E-12	1.815E-12
ESE	2.128E-10	9.452E-11	5.726E-11	2.894E-11	1.752E-11	1.174E-11	8.416E-12	6.319E-12	4.913E-12	3.925E-12	3.204E-12
SE	3.739E-10	1.661E-10	1.006E-10	5.085E-11	3.078E-11	2.064E-11	1.479E-11	1.110E-11	8.633E-12	6.896E-12	5.629E-12
SSE	5.512E-10	2.449E-10	1.483E-10	7.497E-11	4.538E-11	3.042E-11	2.180E-11	1.637E-11	1.273E-11	1.017E-11	8.299E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.183E-08	6.519E-09	1.702E-09	7.644E-10	4.324E-10	1.663E-10	4.811E-11	1.907E-11	1.018E-11	6.302E-12
SSW	1.425E-08	2.919E-09	7.621E-10	3.423E-10	1.936E-10	7.446E-11	2.154E-11	8.537E-12	4.559E-12	2.822E-12
SW	1.026E-08	2.102E-09	5.487E-10	2.464E-10	1.394E-10	5.361E-11	1.551E-11	6.147E-12	3.282E-12	2.032E-12
WSW	5.510E-09	1.129E-09	2.947E-10	1.323E-10	7.487E-11	2.879E-11	8.329E-12	3.301E-12	1.763E-12	1.091E-12
W	4.655E-09	9.536E-10	2.489E-10	1.118E-10	6.325E-11	2.432E-11	7.037E-12	2.789E-12	1.489E-12	9.218E-13
WNW	1.026E-08	2.102E-09	5.487E-10	2.464E-10	1.394E-10	5.361E-11	1.551E-11	6.147E-12	3.282E-12	2.032E-12
NW	1.938E-08	3.970E-09	1.036E-09	4.655E-10	2.633E-10	1.013E-10	2.929E-11	1.161E-11	6.200E-12	3.838E-12
NNW	4.332E-08	8.874E-09	2.317E-09	1.040E-09	5.886E-10	2.264E-10	6.548E-11	2.595E-11	1.386E-11	8.578E-12
N	6.850E-08	1.403E-08	3.663E-09	1.645E-09	9.307E-10	3.579E-10	1.035E-10	4.104E-11	2.191E-11	1.356E-11
NNE	3.316E-08	6.792E-09	1.773E-09	7.963E-10	4.505E-10	1.732E-10	5.012E-11	1.986E-11	1.061E-11	6.565E-12
NE	1.948E-08	3.989E-09	1.041E-09	4.678E-10	2.646E-10	1.018E-10	2.944E-11	1.167E-11	6.231E-12	3.857E-12
ENE	1.444E-08	2.958E-09	7.722E-10	3.468E-10	1.962E-10	7.545E-11	2.183E-11	8.651E-12	4.620E-12	2.859E-12
E	1.131E-08	2.316E-09	6.046E-10	2.715E-10	1.536E-10	5.907E-11	1.709E-11	6.773E-12	3.617E-12	2.239E-12
ESE	1.995E-08	4.087E-09	1.067E-09	4.792E-10	2.711E-10	1.042E-10	3.016E-11	1.195E-11	6.383E-12	3.951E-12
SE	3.506E-08	7.181E-09	1.875E-09	8.420E-10	4.763E-10	1.832E-10	5.299E-11	2.100E-11	1.122E-11	6.942E-12
SSE	5.168E-08	1.059E-08	2.764E-09	1.241E-09	7.022E-10	2.700E-10	7.812E-11	3.096E-11	1.653E-11	1.023E-11

VENTS GROUND LEVEL RELEASES - JAN-JUN 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	5.4E-06	5.4E-06	4.8E-06	2.8E-08
A	Site Boundary	SSW	.82	2.6E-06	2.6E-06	2.3E-06	1.1E-08
A	Site Boundary	SW	.97	1.1E-06	1.1E-06	9.4E-07	5.3E-09
A	Site Boundary	WSW	.93	9.1E-07	9.1E-07	8.0E-07	3.3E-09
A	Site Boundary	W	.91	6.1E-07	6.1E-07	5.3E-07	2.9E-09
A	Site Boundary	WNW	.94	1.3E-06	1.3E-06	1.1E-06	5.9E-09
A	Site Boundary	NW	.81	3.0E-06	3.0E-06	2.7E-06	1.6E-08
A	Site Boundary	NNW	.69	1.0E-05	1.0E-05	9.3E-06	5.1E-08
A	Site Boundary	N	.67	1.5E-05	1.5E-05	1.4E-05	8.4E-08
A	Site Boundary	NNE	.60	9.5E-06	9.4E-06	8.5E-06	4.9E-08
A	Site Boundary	NE	.62	6.4E-06	6.4E-06	5.7E-06	2.7E-08
A	Site Boundary	ENE	.59	5.2E-06	5.2E-06	4.7E-06	2.2E-08
A	Site Boundary	E	.53	4.6E-06	4.6E-06	4.2E-06	2.1E-08
A	Site Boundary	ESE	.54	6.5E-06	6.5E-06	5.9E-06	3.5E-08
A	Site Boundary	SE	.65	6.7E-06	6.7E-06	6.0E-06	4.6E-08
A	Site Boundary	SSE	.81	7.1E-06	7.0E-06	6.3E-06	4.3E-08
A	Nearest Res	SW	1.30	5.5E-07	5.5E-07	4.7E-07	2.6E-09
A	Nearest Res	WSW	2.50	1.1E-07	1.0E-07	8.6E-08	2.8E-10
A	Nearest Res	W	1.00	4.9E-07	4.9E-07	4.3E-07	2.3E-09
A	Nearest Res	WNW	1.70	3.3E-07	3.3E-07	2.8E-07	1.3E-09
A	Nearest Res	NW	.90	2.4E-06	2.4E-06	2.1E-06	1.2E-08
A	Nearest Res	NNW	1.90	1.1E-06	1.1E-06	9.5E-07	4.2E-09
A	Nearest Res	N	3.00	6.7E-07	6.6E-07	5.3E-07	2.3E-09
A	Nearest Res	ENE	1.70	5.6E-07	5.5E-07	4.7E-07	1.9E-09
A	Nearest Res	E	1.80	3.9E-07	3.8E-07	3.2E-07	1.3E-09
A	Nearest Res	ESE	2.30	3.4E-07	3.3E-07	2.7E-07	1.2E-09
A	Nearest Cow	NNW	3.50	3.5E-07	3.5E-07	2.7E-07	1.0E-09
A	Nearest Garde	SW	1.30	5.5E-07	5.5E-07	4.7E-07	2.6E-09
A	Nearest Garde	WSW	1.90	1.9E-07	1.8E-07	1.5E-07	5.4E-10
A	Nearest Garde	WNW	2.40	1.6E-07	1.6E-07	1.3E-07	5.8E-10
A	Nearest Garde	NW	2.90	1.9E-07	1.9E-07	1.5E-07	7.0E-10
A	Nearest Garde	NNW	1.90	1.1E-06	1.1E-06	9.5E-07	4.2E-09
A	Nearest Garde	N	3.00	6.7E-07	6.6E-07	5.3E-07	2.3E-09
A	Nearest Garde	ESE	2.30	3.4E-07	3.3E-07	2.7E-07	1.2E-09

Atmospheric Diffusion Estimates

- Ground-Level Releases

July-September 2002

VENTS GROUND LEVEL RELEASES - JUL-SEP 2002
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.972E-05	1.650E-05	8.801E-06	4.404E-06	1.786E-06	9.740E-07	6.208E-07	4.353E-07	3.254E-07	2.547E-07	2.063E-07
SSW	2.025E-05	6.920E-06	3.768E-06	1.895E-06	7.556E-07	4.072E-07	2.572E-07	1.790E-07	1.330E-07	1.036E-07	8.347E-08
SW	1.386E-05	4.751E-06	2.617E-06	1.325E-06	5.249E-07	2.813E-07	1.769E-07	1.227E-07	9.085E-08	7.051E-08	5.669E-08
WSW	8.110E-06	2.810E-06	1.517E-06	7.562E-07	2.944E-07	1.559E-07	9.719E-08	6.691E-08	4.926E-08	3.804E-08	3.045E-08
W	1.220E-05	4.326E-06	2.358E-06	1.177E-06	4.583E-07	2.428E-07	1.513E-07	1.042E-07	7.673E-08	5.927E-08	4.744E-08
WNW	1.808E-05	6.417E-06	3.475E-06	1.728E-06	6.686E-07	3.527E-07	2.191E-07	1.504E-07	1.105E-07	8.517E-08	6.806E-08
NW	4.250E-05	1.467E-05	7.956E-06	3.977E-06	1.558E-06	8.294E-07	5.190E-07	3.586E-07	2.648E-07	2.051E-07	1.645E-07
NNW	6.152E-05	2.026E-05	1.081E-05	5.411E-06	2.188E-06	1.190E-06	7.575E-07	5.306E-07	3.963E-07	3.099E-07	2.508E-07
N	8.981E-05	2.888E-05	1.557E-05	7.864E-06	3.187E-06	1.737E-06	1.107E-06	7.756E-07	5.797E-07	4.536E-07	3.673E-07
NNE	3.796E-05	1.225E-05	6.726E-06	3.437E-06	1.395E-06	7.601E-07	4.840E-07	3.391E-07	2.533E-07	1.981E-07	1.603E-07
NE	2.580E-05	8.139E-06	4.325E-06	2.179E-06	8.971E-07	4.939E-07	3.170E-07	2.236E-07	1.679E-07	1.319E-07	1.072E-07
ENE	1.507E-05	4.610E-06	2.486E-06	1.270E-06	5.258E-07	2.905E-07	1.869E-07	1.320E-07	9.927E-08	7.807E-08	6.350E-08
E	1.575E-05	4.804E-06	2.566E-06	1.307E-06	5.438E-07	3.014E-07	1.944E-07	1.375E-07	1.036E-07	8.157E-08	6.641E-08
ESE	2.235E-05	6.810E-06	3.594E-06	1.817E-06	7.600E-07	4.228E-07	2.734E-07	1.939E-07	1.464E-07	1.155E-07	9.415E-08
SE	3.625E-05	1.115E-05	5.762E-06	2.877E-06	1.208E-06	6.736E-07	4.366E-07	3.102E-07	2.345E-07	1.852E-07	1.512E-07
SSE	5.675E-05	1.820E-05	9.771E-06	4.938E-06	2.019E-06	1.106E-06	7.075E-07	4.975E-07	3.727E-07	2.923E-07	2.371E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.715E-07	8.979E-08	5.896E-08	3.445E-08	2.363E-08	1.767E-08	1.396E-08	1.144E-08	9.640E-09	8.291E-09	7.248E-09
SSW	6.915E-08	3.567E-08	2.317E-08	1.334E-08	9.060E-09	6.723E-09	5.275E-09	4.301E-09	3.605E-09	3.087E-09	2.688E-09
SW	4.684E-08	2.391E-08	1.542E-08	8.782E-09	5.915E-09	4.362E-09	3.405E-09	2.763E-09	2.308E-09	1.969E-09	1.709E-09
WSW	2.507E-08	1.262E-08	8.064E-09	4.537E-09	3.034E-09	2.226E-09	1.730E-09	1.399E-09	1.165E-09	9.920E-10	8.593E-10
W	3.905E-08	1.966E-08	1.255E-08	7.059E-09	4.723E-09	3.465E-09	2.693E-09	2.178E-09	1.814E-09	1.544E-09	1.337E-09
WNW	5.595E-08	2.805E-08	1.786E-08	9.999E-09	6.668E-09	4.879E-09	3.784E-09	3.055E-09	2.540E-09	2.159E-09	1.868E-09
NW	1.358E-07	6.912E-08	4.449E-08	2.529E-08	1.703E-08	1.256E-08	9.802E-09	7.956E-09	6.645E-09	5.672E-09	4.925E-09
NNW	2.085E-07	1.090E-07	7.153E-08	4.175E-08	2.861E-08	2.139E-08	1.689E-08	1.384E-08	1.165E-08	1.002E-08	8.758E-09
N	3.055E-07	1.600E-07	1.051E-07	6.144E-08	4.219E-08	3.158E-08	2.495E-08	2.047E-08	1.725E-08	1.484E-08	1.297E-08
NNE	1.332E-07	6.949E-08	4.550E-08	2.647E-08	1.810E-08	1.350E-08	1.064E-08	8.704E-09	7.319E-09	6.284E-09	5.484E-09
NE	8.942E-08	4.733E-08	3.132E-08	1.849E-08	1.278E-08	9.609E-09	7.623E-09	6.272E-09	5.301E-09	4.571E-09	4.006E-09
ENE	5.300E-08	2.811E-08	1.862E-08	1.101E-08	7.616E-09	5.733E-09	4.550E-09	3.746E-09	3.166E-09	2.731E-09	2.394E-09
E	5.549E-08	2.953E-08	1.961E-08	1.163E-08	8.053E-09	6.066E-09	4.819E-09	3.969E-09	3.357E-09	2.897E-09	2.540E-09
ESE	7.877E-08	4.215E-08	2.809E-08	1.674E-08	1.164E-08	8.800E-09	7.007E-09	5.784E-09	4.901E-09	4.237E-09	3.720E-09
SE	1.266E-07	6.799E-08	4.543E-08	2.718E-08	1.895E-08	1.435E-08	1.144E-08	9.459E-09	8.025E-09	6.945E-09	6.104E-09
SSE	1.974E-07	1.038E-07	6.839E-08	4.013E-08	2.761E-08	2.070E-08	1.638E-08	1.345E-08	1.134E-08	9.765E-09	8.543E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	8.558E-06	2.007E-06	6.408E-07	3.299E-07	2.078E-07	9.426E-08	3.509E-08	1.778E-08	1.147E-08	8.304E-09
SSW	3.636E-06	8.540E-07	2.659E-07	1.349E-07	8.412E-08	3.755E-08	1.362E-08	6.767E-09	4.314E-09	3.093E-09
SW	2.517E-06	5.945E-07	1.831E-07	9.219E-08	5.714E-08	2.523E-08	8.983E-09	4.393E-09	2.773E-09	1.973E-09
WSW	1.466E-06	3.355E-07	1.007E-07	5.003E-08	3.071E-08	1.336E-08	4.653E-09	2.243E-09	1.405E-09	9.942E-10
W	2.271E-06	5.223E-07	1.569E-07	7.793E-08	4.784E-08	2.081E-08	7.241E-09	3.492E-09	2.187E-09	1.547E-09
WNW	3.352E-06	7.637E-07	2.272E-07	1.123E-07	6.864E-08	2.972E-08	1.026E-08	4.918E-09	3.067E-09	2.164E-09
NW	7.679E-06	1.772E-06	5.376E-07	2.689E-07	1.659E-07	7.299E-08	2.589E-08	1.265E-08	7.984E-09	5.684E-09
NNW	1.051E-05	2.461E-06	7.822E-07	4.018E-07	2.527E-07	1.145E-07	4.253E-08	2.152E-08	1.388E-08	1.004E-08
N	1.510E-05	3.582E-06	1.142E-06	5.877E-07	3.700E-07	1.679E-07	6.259E-08	3.176E-08	2.052E-08	1.486E-08
NNE	6.491E-06	1.566E-06	4.997E-07	2.568E-07	1.615E-07	7.299E-08	2.698E-08	1.358E-08	8.729E-09	6.294E-09
NE	4.219E-06	1.003E-06	3.268E-07	1.701E-07	1.079E-07	4.957E-08	1.880E-08	9.659E-09	6.288E-09	4.578E-09
ENE	2.417E-06	5.866E-07	1.926E-07	1.005E-07	6.393E-08	2.942E-08	1.119E-08	5.762E-09	3.755E-09	2.735E-09
E	2.504E-06	6.056E-07	2.002E-07	1.049E-07	6.686E-08	3.089E-08	1.181E-08	6.097E-09	3.979E-09	2.901E-09
ESE	3.519E-06	8.451E-07	2.815E-07	1.482E-07	9.477E-08	4.404E-08	1.700E-08	8.841E-09	5.797E-09	4.242E-09
SE	5.676E-06	1.341E-06	4.493E-07	2.373E-07	1.522E-07	7.099E-08	2.758E-08	1.441E-08	9.480E-09	6.953E-09
SSE	9.495E-06	2.262E-06	7.298E-07	3.777E-07	2.387E-07	1.089E-07	4.085E-08	2.082E-08	1.348E-08	9.780E-09

VENTS GROUND LEVEL RELEASES - JUL-SEP 2002
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.967E-05	1.647E-05	8.772E-06	4.384E-06	1.775E-06	9.655E-07	6.139E-07	4.295E-07	3.204E-07	2.502E-07	2.021E-07
SSW	2.023E-05	6.906E-06	3.756E-06	1.887E-06	7.508E-07	4.037E-07	2.544E-07	1.767E-07	1.310E-07	1.018E-07	8.187E-08
SW	1.385E-05	4.741E-06	2.609E-06	1.320E-06	5.216E-07	2.789E-07	1.750E-07	1.211E-07	8.947E-08	6.929E-08	5.558E-08
WSW	8.103E-06	2.805E-06	1.513E-06	7.536E-07	2.929E-07	1.549E-07	9.635E-08	6.622E-08	4.867E-08	3.752E-08	2.998E-08
W	1.219E-05	4.319E-06	2.352E-06	1.173E-06	4.560E-07	2.411E-07	1.500E-07	1.031E-07	7.581E-08	5.845E-08	4.671E-08
WNW	1.807E-05	6.407E-06	3.467E-06	1.723E-06	6.656E-07	3.505E-07	2.174E-07	1.491E-07	1.093E-07	8.414E-08	6.712E-08
NW	4.247E-05	1.465E-05	7.940E-06	3.966E-06	1.551E-06	8.246E-07	5.153E-07	3.555E-07	2.621E-07	2.027E-07	1.624E-07
NNW	6.145E-05	2.022E-05	1.078E-05	5.389E-06	2.175E-06	1.181E-06	7.499E-07	5.241E-07	3.906E-07	3.048E-07	2.462E-07
N	8.973E-05	2.883E-05	1.553E-05	7.834E-06	3.169E-06	1.723E-06	1.096E-06	7.665E-07	5.717E-07	4.464E-07	3.607E-07
NNE	3.792E-05	1.222E-05	6.706E-06	3.423E-06	1.386E-06	7.538E-07	4.790E-07	3.349E-07	2.496E-07	1.948E-07	1.573E-07
NE	2.577E-05	8.120E-06	4.310E-06	2.169E-06	8.908E-07	4.892E-07	3.133E-07	2.203E-07	1.651E-07	1.294E-07	1.049E-07
ENE	1.505E-05	4.599E-06	2.477E-06	1.264E-06	5.219E-07	2.876E-07	1.846E-07	1.300E-07	9.754E-08	7.652E-08	6.208E-08
E	1.573E-05	4.792E-06	2.557E-06	1.300E-06	5.397E-07	2.984E-07	1.919E-07	1.354E-07	1.017E-07	7.992E-08	6.490E-08
ESE	2.232E-05	6.793E-06	3.581E-06	1.808E-06	7.544E-07	4.186E-07	2.700E-07	1.910E-07	1.438E-07	1.131E-07	9.203E-08
SE	3.620E-05	1.112E-05	5.741E-06	2.863E-06	1.199E-06	6.671E-07	4.312E-07	3.056E-07	2.304E-07	1.815E-07	1.478E-07
SSE	5.669E-05	1.816E-05	9.739E-06	4.916E-06	2.005E-06	1.096E-06	6.995E-07	4.907E-07	3.668E-07	2.869E-07	2.322E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.677E-07	8.679E-08	5.634E-08	3.216E-08	2.155E-08	1.575E-08	1.215E-08	9.733E-09	8.010E-09	6.731E-09	5.748E-09
SSW	6.767E-08	3.452E-08	2.218E-08	1.249E-08	8.294E-09	6.019E-09	4.619E-09	3.683E-09	3.020E-09	2.529E-09	2.154E-09
SW	4.582E-08	2.313E-08	1.475E-08	8.210E-09	5.406E-09	3.897E-09	2.973E-09	2.359E-09	1.926E-09	1.607E-09	1.363E-09
WSW	2.463E-08	1.229E-08	7.784E-09	4.302E-09	2.826E-09	2.037E-09	1.555E-09	1.236E-09	1.011E-09	8.460E-10	7.201E-10
W	3.838E-08	1.915E-08	1.212E-08	6.696E-09	4.402E-09	3.173E-09	2.423E-09	1.926E-09	1.576E-09	1.318E-09	1.122E-09
WNW	5.510E-08	2.741E-08	1.731E-08	9.544E-09	6.266E-09	4.514E-09	3.448E-09	2.741E-09	2.244E-09	1.878E-09	1.600E-09
NW	1.338E-07	6.759E-08	4.318E-08	2.418E-08	1.603E-08	1.164E-08	8.950E-09	7.156E-09	5.887E-09	4.949E-09	4.233E-09
NNW	2.042E-07	1.057E-07	6.859E-08	3.918E-08	2.628E-08	1.923E-08	1.485E-08	1.191E-08	9.820E-09	8.263E-09	7.068E-09
N	2.994E-07	1.552E-07	1.009E-07	5.779E-08	3.887E-08	2.850E-08	2.206E-08	1.772E-08	1.463E-08	1.233E-08	1.056E-08
NNE	1.304E-07	6.731E-08	4.360E-08	2.482E-08	1.661E-08	1.212E-08	9.349E-09	7.485E-09	6.159E-09	5.175E-09	4.421E-09
NE	8.726E-08	4.562E-08	2.981E-08	1.716E-08	1.156E-08	8.479E-09	6.558E-09	5.262E-09	4.335E-09	3.645E-09	3.115E-09
ENE	5.168E-08	2.706E-08	1.769E-08	1.019E-08	6.874E-09	5.042E-09	3.900E-09	3.129E-09	2.578E-09	2.167E-09	1.851E-09
E	5.408E-08	2.841E-08	1.862E-08	1.075E-08	7.254E-09	5.323E-09	4.118E-09	3.304E-09	2.721E-09	2.288E-09	1.954E-09
ESE	7.680E-08	4.057E-08	2.669E-08	1.551E-08	1.051E-08	7.738E-09	6.005E-09	4.830E-09	3.989E-09	3.360E-09	2.875E-09
SE	1.235E-07	6.547E-08	4.319E-08	2.518E-08	1.711E-08	1.262E-08	9.809E-09	7.900E-09	6.530E-09	5.506E-09	4.716E-09
SSE	1.929E-07	1.003E-07	6.526E-08	3.739E-08	2.511E-08	1.838E-08	1.419E-08	1.138E-08	9.367E-09	7.872E-09	6.724E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	8.532E-06	1.995E-06	6.339E-07	3.248E-07	2.036E-07	9.124E-08	3.282E-08	1.586E-08	9.768E-09	6.746E-09
SSW	3.625E-06	8.491E-07	2.631E-07	1.329E-07	8.251E-08	3.640E-08	1.278E-08	6.066E-09	3.698E-09	2.536E-09
SW	2.510E-06	5.911E-07	1.811E-07	9.081E-08	5.603E-08	2.445E-08	8.417E-09	3.930E-09	2.369E-09	1.611E-09
WSW	1.463E-06	3.339E-07	9.990E-08	4.944E-08	3.023E-08	1.303E-08	4.420E-09	2.055E-09	1.242E-09	8.484E-10
W	2.265E-06	5.199E-07	1.556E-07	7.701E-08	4.710E-08	2.030E-08	6.881E-09	3.201E-09	1.935E-09	1.322E-09
WNW	3.345E-06	7.606E-07	2.256E-07	1.111E-07	6.771E-08	2.907E-08	9.813E-09	4.555E-09	2.754E-09	1.884E-09
NW	7.664E-06	1.765E-06	5.338E-07	2.661E-07	1.637E-07	7.145E-08	2.478E-08	1.174E-08	7.185E-09	4.962E-09
NNW	1.048E-05	2.447E-06	7.745E-07	3.961E-07	2.480E-07	1.111E-07	3.998E-08	1.936E-08	1.196E-08	8.282E-09
N	1.506E-05	3.563E-06	1.131E-06	5.796E-07	3.634E-07	1.631E-07	5.896E-08	2.869E-08	1.778E-08	1.236E-08
NNE	6.473E-06	1.558E-06	4.947E-07	2.531E-07	1.584E-07	7.080E-08	2.535E-08	1.221E-08	7.512E-09	5.187E-09
NE	4.205E-06	9.964E-07	3.230E-07	1.673E-07	1.056E-07	4.785E-08	1.748E-08	8.533E-09	5.279E-09	3.653E-09
ENE	2.409E-06	5.826E-07	1.902E-07	9.881E-08	6.251E-08	2.837E-08	1.038E-08	5.074E-09	3.139E-09	2.172E-09
E	2.495E-06	6.015E-07	1.977E-07	1.031E-07	6.534E-08	2.976E-08	1.095E-08	5.356E-09	3.315E-09	2.292E-09
ESE	3.507E-06	8.393E-07	2.780E-07	1.456E-07	9.264E-08	4.245E-08	1.577E-08	7.783E-09	4.845E-09	3.367E-09
SE	5.657E-06	1.332E-06	4.439E-07	2.333E-07	1.488E-07	6.846E-08	2.559E-08	1.269E-08	7.924E-09	5.517E-09
SSE	9.466E-06	2.248E-06	7.218E-07	3.718E-07	2.339E-07	1.053E-07	3.813E-08	1.850E-08	1.142E-08	7.890E-09

VENTS GROUND LEVEL RELEASES - JUL-SEP 2002
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.705E-05	1.506E-05	7.835E-06	3.850E-06	1.514E-06	8.045E-07	5.013E-07	3.445E-07	2.528E-07	1.945E-07	1.551E-07
SSW	1.916E-05	6.316E-06	3.355E-06	1.657E-06	6.406E-07	3.363E-07	2.077E-07	1.417E-07	1.033E-07	7.910E-08	6.277E-08
SW	1.312E-05	4.336E-06	2.330E-06	1.159E-06	4.450E-07	2.324E-07	1.429E-07	9.708E-08	7.058E-08	5.386E-08	4.262E-08
WSW	7.673E-06	2.565E-06	1.351E-06	6.613E-07	2.497E-07	1.289E-07	7.853E-08	5.299E-08	3.831E-08	2.909E-08	2.292E-08
W	1.155E-05	3.949E-06	2.099E-06	1.030E-06	3.887E-07	2.007E-07	1.223E-07	8.254E-08	5.967E-08	4.532E-08	3.571E-08
WNW	1.711E-05	5.857E-06	3.095E-06	1.512E-06	5.671E-07	2.915E-07	1.771E-07	1.192E-07	8.596E-08	6.516E-08	5.126E-08
NW	4.022E-05	1.339E-05	7.086E-06	3.478E-06	1.322E-06	6.857E-07	4.196E-07	2.841E-07	2.060E-07	1.569E-07	1.239E-07
NNW	5.820E-05	1.849E-05	9.625E-06	4.731E-06	1.855E-06	9.835E-07	6.119E-07	4.200E-07	3.080E-07	2.368E-07	1.886E-07
N	8.498E-05	2.636E-05	1.386E-05	6.876E-06	2.703E-06	1.435E-06	8.938E-07	6.140E-07	4.506E-07	3.466E-07	2.763E-07
NNE	3.591E-05	1.118E-05	5.989E-06	3.005E-06	1.182E-06	6.279E-07	3.909E-07	2.684E-07	1.968E-07	1.513E-07	1.205E-07
NE	2.441E-05	7.428E-06	3.850E-06	1.905E-06	7.604E-07	4.079E-07	2.559E-07	1.768E-07	1.304E-07	1.007E-07	8.055E-08
ENE	1.426E-05	4.207E-06	2.213E-06	1.110E-06	4.456E-07	2.399E-07	1.508E-07	1.044E-07	7.707E-08	5.959E-08	4.770E-08
E	1.490E-05	4.384E-06	2.284E-06	1.142E-06	4.609E-07	2.489E-07	1.569E-07	1.088E-07	8.042E-08	6.226E-08	4.989E-08
ESE	2.114E-05	6.214E-06	3.199E-06	1.588E-06	6.441E-07	3.491E-07	2.207E-07	1.534E-07	1.136E-07	8.813E-08	7.073E-08
SE	3.429E-05	1.017E-05	5.130E-06	2.515E-06	1.024E-06	5.563E-07	3.524E-07	2.454E-07	1.820E-07	1.414E-07	1.136E-07
SSE	5.369E-05	1.661E-05	8.700E-06	4.317E-06	1.711E-06	9.137E-07	5.713E-07	3.936E-07	2.895E-07	2.232E-07	1.782E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.271E-07	6.270E-08	3.910E-08	2.101E-08	1.344E-08	9.465E-09	7.078E-09	5.518E-09	4.435E-09	3.648E-09	3.057E-09
SSW	5.123E-08	2.491E-08	1.538E-08	8.143E-09	5.160E-09	3.605E-09	2.679E-09	2.078E-09	1.662E-09	1.362E-09	1.137E-09
SW	3.470E-08	1.670E-08	1.023E-08	5.358E-09	3.368E-09	2.338E-09	1.728E-09	1.334E-09	1.063E-09	8.677E-10	7.222E-10
WSW	1.859E-08	8.832E-09	5.364E-09	2.779E-09	1.737E-09	1.201E-09	8.852E-10	6.820E-10	5.427E-10	4.426E-10	3.681E-10
W	2.897E-08	1.375E-08	8.349E-09	4.324E-09	2.704E-09	1.870E-09	1.378E-09	1.062E-09	8.449E-10	6.890E-10	5.729E-10
WNW	4.152E-08	1.964E-08	1.189E-08	6.136E-09	3.826E-09	2.641E-09	1.944E-09	1.496E-09	1.189E-09	9.689E-10	8.052E-10
NW	1.008E-07	4.842E-08	2.964E-08	1.553E-08	9.777E-09	6.801E-09	5.038E-09	3.897E-09	3.113E-09	2.547E-09	2.125E-09
NNW	1.545E-07	7.618E-08	4.749E-08	2.550E-08	1.631E-08	1.148E-08	8.587E-09	6.695E-09	5.382E-09	4.429E-09	3.712E-09
N	2.264E-07	1.118E-07	6.979E-08	3.755E-08	2.407E-08	1.697E-08	1.271E-08	9.917E-09	7.979E-09	6.571E-09	5.511E-09
NNE	9.870E-08	4.855E-08	3.020E-08	1.616E-08	1.032E-08	7.247E-09	5.409E-09	4.210E-09	3.379E-09	2.776E-09	2.324E-09
NE	6.620E-08	3.302E-08	2.075E-08	1.126E-08	7.253E-09	5.132E-09	3.853E-09	3.013E-09	2.428E-09	2.002E-09	1.680E-09
ENE	3.923E-08	1.960E-08	1.233E-08	6.698E-09	4.320E-09	3.059E-09	2.297E-09	1.797E-09	1.448E-09	1.194E-09	1.003E-09
E	4.106E-08	2.059E-08	1.298E-08	7.073E-09	4.566E-09	3.235E-09	2.431E-09	1.902E-09	1.534E-09	1.265E-09	1.063E-09
ESE	5.830E-08	2.939E-08	1.860E-08	1.019E-08	6.605E-09	4.695E-09	3.538E-09	2.775E-09	2.242E-09	1.852E-09	1.558E-09
SE	9.371E-08	4.742E-08	3.009E-08	1.654E-08	1.075E-08	7.656E-09	5.778E-09	4.538E-09	3.671E-09	3.036E-09	2.556E-09
SSE	1.462E-07	7.248E-08	4.534E-08	2.446E-08	1.570E-08	1.107E-08	8.294E-09	6.474E-09	5.209E-09	4.288E-09	3.596E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.669E-06	1.718E-06	5.194E-07	2.568E-07	1.564E-07	6.651E-08	2.167E-08	9.571E-09	5.551E-09	3.662E-09
SSW	3.258E-06	7.312E-07	2.156E-07	1.051E-07	6.333E-08	2.652E-08	8.425E-09	3.649E-09	2.091E-09	1.368E-09
SW	2.255E-06	5.091E-07	1.484E-07	7.178E-08	4.302E-08	1.782E-08	5.556E-09	2.368E-09	1.343E-09	8.716E-10
WSW	1.314E-06	2.874E-07	8.174E-08	3.899E-08	2.315E-08	9.460E-09	2.890E-09	1.217E-09	6.870E-10	4.447E-10
W	2.035E-06	4.476E-07	1.273E-07	6.074E-08	3.606E-08	1.473E-08	4.498E-09	1.896E-09	1.070E-09	6.922E-10
WNW	3.005E-06	6.545E-07	1.844E-07	8.753E-08	5.177E-08	2.106E-08	6.388E-09	2.678E-09	1.507E-09	9.734E-10
NW	6.884E-06	1.518E-06	4.364E-07	2.096E-07	1.251E-07	5.171E-08	1.611E-08	6.889E-09	3.924E-09	2.558E-09
NNW	9.419E-06	2.107E-06	6.342E-07	3.129E-07	1.903E-07	8.083E-08	2.630E-08	1.161E-08	6.736E-09	4.446E-09
N	1.354E-05	3.067E-06	9.263E-07	4.577E-07	2.787E-07	1.186E-07	3.872E-08	1.716E-08	9.976E-09	6.595E-09
NNE	5.816E-06	1.341E-06	4.051E-07	2.000E-07	1.216E-07	5.154E-08	1.668E-08	7.330E-09	4.236E-09	2.787E-09
NE	3.781E-06	8.581E-07	2.648E-07	1.324E-07	8.121E-08	3.494E-08	1.159E-08	5.186E-09	3.030E-09	2.009E-09
ENE	2.166E-06	5.018E-07	1.560E-07	7.822E-08	4.809E-08	2.073E-08	6.893E-09	3.091E-09	1.807E-09	1.199E-09
E	2.243E-06	5.181E-07	1.622E-07	8.160E-08	5.028E-08	2.176E-08	7.272E-09	3.268E-09	1.913E-09	1.270E-09
ESE	3.153E-06	7.229E-07	2.280E-07	1.153E-07	7.128E-08	3.102E-08	1.047E-08	4.742E-09	2.790E-09	1.859E-09
SE	5.088E-06	1.147E-06	3.640E-07	1.846E-07	1.145E-07	5.000E-08	1.698E-08	7.730E-09	4.562E-09	3.046E-09
SSE	8.509E-06	1.936E-06	5.915E-07	2.940E-07	1.797E-07	7.680E-08	2.521E-08	1.120E-08	6.512E-09	4.305E-09

VENTS GROUND LEVEL RELEASES - JUL-SEP 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.690E-07	5.713E-08	2.933E-08	1.395E-08	5.009E-09	2.484E-09	1.463E-09	9.578E-10	6.740E-10	4.995E-10	3.849E-10
SSW	8.395E-08	2.839E-08	1.458E-08	6.930E-09	2.489E-09	1.234E-09	7.269E-10	4.759E-10	3.349E-10	2.482E-10	1.913E-10
SW	5.667E-08	1.916E-08	9.839E-09	4.678E-09	1.680E-09	8.333E-10	4.906E-10	3.213E-10	2.261E-10	1.675E-10	1.291E-10
WSW	5.247E-08	1.774E-08	9.110E-09	4.331E-09	1.556E-09	7.715E-10	4.543E-10	2.975E-10	2.093E-10	1.551E-10	1.195E-10
W	7.451E-08	2.520E-08	1.294E-08	6.150E-09	2.209E-09	1.096E-09	6.451E-10	4.224E-10	2.972E-10	2.203E-10	1.697E-10
WNW	1.270E-07	4.294E-08	2.205E-08	1.048E-08	3.765E-09	1.867E-09	1.099E-09	7.199E-10	5.065E-10	3.754E-10	2.893E-10
NW	3.253E-07	1.100E-07	5.648E-08	2.685E-08	9.646E-09	4.783E-09	2.817E-09	1.844E-09	1.298E-09	9.617E-10	7.411E-10
NNW	3.075E-07	1.040E-07	5.339E-08	2.538E-08	9.117E-09	4.521E-09	2.662E-09	1.743E-09	1.227E-09	9.090E-10	7.005E-10
N	4.628E-07	1.565E-07	8.035E-08	3.820E-08	1.372E-08	6.805E-09	4.007E-09	2.624E-09	1.846E-09	1.368E-09	1.054E-09
NNE	1.585E-07	5.358E-08	2.751E-08	1.308E-08	4.698E-09	2.330E-09	1.372E-09	8.983E-10	6.321E-10	4.685E-10	3.610E-10
NE	7.871E-08	2.661E-08	1.367E-08	6.497E-09	2.334E-09	1.157E-09	6.814E-10	4.462E-10	3.140E-10	2.327E-10	1.793E-10
ENE	3.988E-08	1.348E-08	6.924E-09	3.292E-09	1.182E-09	5.864E-10	3.453E-10	2.261E-10	1.591E-10	1.179E-10	9.085E-11
E	3.883E-08	1.313E-08	6.742E-09	3.205E-09	1.151E-09	5.709E-10	3.362E-10	2.201E-10	1.549E-10	1.148E-10	8.846E-11
ESE	4.827E-08	1.632E-08	8.381E-09	3.985E-09	1.431E-09	7.098E-10	4.179E-10	2.737E-10	1.926E-10	1.427E-10	1.100E-10
SE	8.500E-08	2.874E-08	1.476E-08	7.016E-09	2.520E-09	1.250E-09	7.359E-10	4.819E-10	3.391E-10	2.513E-10	1.937E-10
SSE	2.078E-07	7.026E-08	3.608E-08	1.715E-08	6.161E-09	3.055E-09	1.799E-09	1.178E-09	8.289E-10	6.143E-10	4.734E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	3.058E-10	1.358E-10	8.229E-11	4.159E-11	2.517E-11	1.688E-11	1.209E-11	9.081E-12	7.061E-12	5.640E-12	4.604E-12
SSW	1.519E-10	6.750E-11	4.089E-11	2.067E-11	1.251E-11	8.387E-12	6.010E-12	4.513E-12	3.509E-12	2.803E-12	2.288E-12
SW	1.026E-10	4.556E-11	2.760E-11	1.395E-11	8.443E-12	5.661E-12	4.056E-12	3.046E-12	2.368E-12	1.892E-12	1.544E-12
WSW	9.497E-11	4.219E-11	2.556E-11	1.292E-11	7.818E-12	5.242E-12	3.756E-12	2.820E-12	2.193E-12	1.752E-12	1.430E-12
W	1.349E-10	5.991E-11	3.629E-11	1.834E-11	1.110E-11	7.443E-12	5.333E-12	4.005E-12	3.114E-12	2.487E-12	2.030E-12
WNW	2.298E-10	1.021E-10	6.184E-11	3.126E-11	1.892E-11	1.268E-11	9.089E-12	6.825E-12	5.307E-12	4.239E-12	3.460E-12
NW	5.888E-10	2.616E-10	1.584E-10	8.008E-11	4.847E-11	3.250E-11	2.329E-11	1.749E-11	1.360E-11	1.086E-11	8.865E-12
NNW	5.565E-10	2.472E-10	1.498E-10	7.569E-11	4.581E-11	3.072E-11	2.201E-11	1.653E-11	1.285E-11	1.026E-11	8.378E-12
N	8.376E-10	3.721E-10	2.254E-10	1.139E-10	6.895E-11	4.623E-11	3.313E-11	2.488E-11	1.934E-11	1.545E-11	1.261E-11
NNE	2.868E-10	1.274E-10	7.718E-11	3.901E-11	2.361E-11	1.583E-11	1.134E-11	8.517E-12	6.622E-12	5.290E-12	4.318E-12
NE	1.424E-10	6.328E-11	3.833E-11	1.938E-11	1.173E-11	7.863E-12	5.634E-12	4.230E-12	3.289E-12	2.628E-12	2.145E-12
ENE	7.217E-11	3.206E-11	1.942E-11	9.817E-12	5.942E-12	3.984E-12	2.855E-12	2.143E-12	1.667E-12	1.331E-12	1.087E-12
E	7.027E-11	3.122E-11	1.891E-11	9.558E-12	5.785E-12	3.879E-12	2.779E-12	2.087E-12	1.623E-12	1.296E-12	1.058E-12
ESE	8.737E-11	3.881E-11	2.351E-11	1.188E-11	7.192E-12	4.822E-12	3.455E-12	2.595E-12	2.017E-12	1.612E-12	1.315E-12
SE	1.538E-10	6.834E-11	4.140E-11	2.093E-11	1.266E-11	8.492E-12	6.085E-12	4.569E-12	3.552E-12	2.838E-12	2.316E-12
SSE	3.761E-10	1.671E-10	1.012E-10	5.115E-11	3.096E-11	2.076E-11	1.487E-11	1.117E-11	8.684E-12	6.937E-12	5.662E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.867E-08	5.873E-09	1.533E-09	6.886E-10	3.896E-10	1.498E-10	4.334E-11	1.718E-11	9.173E-12	5.677E-12
SSW	1.425E-08	2.918E-09	7.619E-10	3.422E-10	1.936E-10	7.444E-11	2.153E-11	8.535E-12	4.558E-12	2.821E-12
SW	9.617E-09	1.970E-09	5.142E-10	2.310E-10	1.307E-10	5.025E-11	1.454E-11	5.761E-12	3.076E-12	1.904E-12
WSW	8.905E-09	1.824E-09	4.762E-10	2.139E-10	1.210E-10	4.652E-11	1.346E-11	5.334E-12	2.849E-12	1.763E-12
W	1.264E-08	2.590E-09	6.761E-10	3.037E-10	1.718E-10	6.606E-11	1.911E-11	7.575E-12	4.045E-12	2.504E-12
WNW	2.155E-08	4.414E-09	1.152E-09	5.175E-10	2.928E-10	1.126E-10	3.257E-11	1.291E-11	6.894E-12	4.267E-12
NW	5.521E-08	1.131E-08	2.952E-09	1.326E-09	7.501E-10	2.884E-10	8.345E-11	3.307E-11	1.766E-11	1.093E-11
NNW	5.218E-08	1.069E-08	2.790E-09	1.253E-09	7.089E-10	2.726E-10	7.887E-11	3.126E-11	1.669E-11	1.033E-11
N	7.854E-08	1.609E-08	4.200E-09	1.886E-09	1.067E-09	4.103E-10	1.187E-10	4.705E-11	2.512E-11	1.555E-11
NNE	2.689E-08	5.508E-09	1.438E-09	6.458E-10	3.654E-10	1.405E-10	4.065E-11	1.611E-11	8.603E-12	5.325E-12
NE	1.336E-08	2.736E-09	7.142E-10	3.208E-10	1.815E-10	6.979E-11	2.019E-11	8.002E-12	4.273E-12	2.645E-12
ENE	6.767E-09	1.386E-09	3.619E-10	1.625E-10	9.194E-11	3.536E-11	1.023E-11	4.054E-12	2.165E-12	1.340E-12
E	6.589E-09	1.350E-09	3.524E-10	1.583E-10	8.952E-11	3.443E-11	9.960E-12	3.947E-12	2.108E-12	1.305E-12
ESE	8.192E-09	1.678E-09	4.381E-10	1.967E-10	1.113E-10	4.280E-11	1.238E-11	4.908E-12	2.621E-12	1.622E-12
SE	1.443E-08	2.955E-09	7.714E-10	3.464E-10	1.960E-10	7.537E-11	2.180E-11	8.642E-12	4.615E-12	2.856E-12
SSE	3.526E-08	7.223E-09	1.886E-09	8.469E-10	4.791E-10	1.842E-10	5.330E-11	2.112E-11	1.128E-11	6.982E-12

VENTS GROUND LEVEL RELEASES - JUL-SEP 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	7.6E-06	7.5E-06	6.7E-06	2.5E-08
A	Site Boundary	SSW	.82	3.0E-06	3.0E-06	2.7E-06	1.1E-08
A	Site Boundary	SW	.97	1.4E-06	1.4E-06	1.2E-06	5.0E-09
A	Site Boundary	WSW	.93	9.1E-07	9.1E-07	8.0E-07	5.3E-09
A	Site Boundary	W	.91	1.5E-06	1.5E-06	1.3E-06	7.8E-09
A	Site Boundary	WNW	.94	2.0E-06	2.0E-06	1.8E-06	1.2E-08
A	Site Boundary	NW	.81	6.6E-06	6.6E-06	5.8E-06	4.6E-08
A	Site Boundary	NNW	.69	1.2E-05	1.2E-05	1.1E-05	6.2E-08
A	Site Boundary	N	.67	1.8E-05	1.8E-05	1.6E-05	9.6E-08
A	Site Boundary	NNE	.60	9.3E-06	9.3E-06	8.4E-06	4.0E-08
A	Site Boundary	NE	.62	5.7E-06	5.7E-06	5.1E-06	1.9E-08
A	Site Boundary	ENE	.59	3.6E-06	3.6E-06	3.2E-06	1.0E-08
A	Site Boundary	E	.53	4.4E-06	4.4E-06	4.0E-06	1.2E-08
A	Site Boundary	ESE	.54	6.0E-06	6.0E-06	5.5E-06	1.5E-08
A	Site Boundary	SE	.65	7.2E-06	7.2E-06	6.5E-06	1.9E-08
A	Site Boundary	SSE	.81	8.1E-06	8.1E-06	7.2E-06	2.9E-08
A	Nearest Res	SW	1.30	7.2E-07	7.2E-07	6.2E-07	2.4E-09
A	Nearest Res	WSW	2.50	9.7E-08	9.6E-08	7.9E-08	4.5E-10
A	Nearest Res	W	1.00	1.2E-06	1.2E-06	1.0E-06	6.2E-09
A	Nearest Res	WNW	1.70	5.0E-07	5.0E-07	4.2E-07	2.8E-09
A	Nearest Res	NW	.90	5.1E-06	5.1E-06	4.5E-06	3.5E-08
A	Nearest Res	NNW	1.90	1.3E-06	1.3E-06	1.1E-06	5.1E-09
A	Nearest Res	N	3.00	7.8E-07	7.7E-07	6.1E-07	2.6E-09
A	Nearest Res	ENE	1.70	4.1E-07	4.0E-07	3.4E-07	8.7E-10
A	Nearest Res	E	1.80	3.7E-07	3.7E-07	3.1E-07	7.4E-10
A	Nearest Res	ESE	2.30	3.2E-07	3.2E-07	2.6E-07	5.1E-10
A	Nearest Cow	NNW	3.50	4.0E-07	3.9E-07	3.1E-07	1.2E-09
A	Nearest Garde	SW	1.30	7.2E-07	7.2E-07	6.2E-07	2.4E-09
A	Nearest Garde	WSW	1.90	1.7E-07	1.7E-07	1.4E-07	8.7E-10
A	Nearest Garde	WNW	2.40	2.4E-07	2.4E-07	1.9E-07	1.2E-09
A	Nearest Garde	NW	2.90	3.8E-07	3.8E-07	3.1E-07	2.0E-09
A	Nearest Garde	NNW	1.90	1.3E-06	1.3E-06	1.1E-06	5.1E-09
A	Nearest Garde	N	3.00	7.8E-07	7.7E-07	6.1E-07	2.6E-09
A	Nearest Garde	ESE	2.30	3.2E-07	3.2E-07	2.6E-07	5.1E-10

Atmospheric Diffusion Estimates

Ground-Level Releases

October-December 2002

VENTS GROUND LEVEL RELEASES - OCT-DEC 2002
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.892E-05	1.294E-05	7.006E-06	3.537E-06	1.427E-06	7.748E-07	4.921E-07	3.440E-07	2.566E-07	2.003E-07	1.619E-07
SSW	1.355E-05	4.719E-06	2.553E-06	1.279E-06	5.063E-07	2.711E-07	1.703E-07	1.180E-07	8.736E-08	6.777E-08	5.446E-08
SW	1.158E-05	3.520E-06	1.800E-06	8.960E-07	3.759E-07	2.096E-07	1.358E-07	9.646E-08	7.288E-08	5.755E-08	4.697E-08
WSW	8.106E-06	2.660E-06	1.396E-06	6.948E-07	2.834E-07	1.550E-07	9.904E-08	6.957E-08	5.209E-08	4.081E-08	3.309E-08
W	9.866E-06	3.105E-06	1.615E-06	8.063E-07	3.352E-07	1.858E-07	1.198E-07	8.482E-08	6.390E-08	5.034E-08	4.100E-08
WNW	1.505E-05	4.884E-06	2.521E-06	1.246E-06	5.135E-07	2.831E-07	1.820E-07	1.284E-07	9.655E-08	7.592E-08	6.173E-08
NW	4.313E-05	1.365E-05	7.073E-06	3.516E-06	1.464E-06	8.128E-07	5.249E-07	3.720E-07	2.805E-07	2.212E-07	1.802E-07
NNW	1.126E-04	3.387E-05	1.717E-05	8.520E-06	3.625E-06	2.040E-06	1.331E-06	9.503E-07	7.212E-07	5.716E-07	4.680E-07
N	1.120E-04	3.452E-05	1.811E-05	9.111E-06	3.804E-06	2.114E-06	1.366E-06	9.687E-07	7.307E-07	5.762E-07	4.697E-07
NNE	7.754E-05	2.469E-05	1.318E-05	6.651E-06	2.737E-06	1.506E-06	9.660E-07	6.808E-07	5.111E-07	4.014E-07	3.260E-07
NE	4.016E-05	1.300E-05	6.966E-06	3.516E-06	1.436E-06	7.862E-07	5.025E-07	3.530E-07	2.643E-07	2.071E-07	1.679E-07
ENE	2.950E-05	9.340E-06	5.071E-06	2.588E-06	1.060E-06	5.812E-07	3.718E-07	2.614E-07	1.958E-07	1.535E-07	1.245E-07
E	2.868E-05	8.977E-06	4.769E-06	2.409E-06	9.973E-07	5.510E-07	3.545E-07	2.504E-07	1.883E-07	1.482E-07	1.205E-07
ESE	2.766E-05	9.043E-06	4.901E-06	2.483E-06	1.006E-06	5.477E-07	3.486E-07	2.441E-07	1.822E-07	1.425E-07	1.152E-07
SE	4.427E-05	1.444E-05	7.794E-06	3.942E-06	1.603E-06	8.747E-07	5.576E-07	3.911E-07	2.924E-07	2.288E-07	1.853E-07
SSE	5.621E-05	1.810E-05	9.615E-06	4.829E-06	1.975E-06	1.083E-06	6.927E-07	4.872E-07	3.651E-07	2.863E-07	2.323E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.344E-07	6.985E-08	4.562E-08	2.645E-08	1.804E-08	1.343E-08	1.057E-08	8.641E-09	7.259E-09	6.229E-09	5.433E-09
SSW	4.497E-08	2.289E-08	1.473E-08	8.365E-09	5.621E-09	4.138E-09	3.226E-09	2.616E-09	2.183E-09	1.862E-09	1.615E-09
SW	3.933E-08	2.111E-08	1.410E-08	8.437E-09	5.884E-09	4.457E-09	3.556E-09	2.941E-09	2.496E-09	2.160E-09	1.900E-09
WSW	2.754E-08	1.445E-08	9.508E-09	5.569E-09	3.826E-09	2.865E-09	2.266E-09	1.859E-09	1.568E-09	1.350E-09	1.181E-09
W	3.427E-08	1.826E-08	1.214E-08	7.212E-09	5.002E-09	3.773E-09	3.001E-09	2.474E-09	2.095E-09	1.810E-09	1.588E-09
WNW	5.152E-08	2.732E-08	1.811E-08	1.071E-08	7.413E-09	5.582E-09	4.433E-09	3.652E-09	3.089E-09	2.666E-09	2.339E-09
NW	1.507E-07	8.053E-08	5.362E-08	3.193E-08	2.219E-08	1.676E-08	1.334E-08	1.101E-08	9.330E-09	8.064E-09	7.081E-09
NNW	3.930E-07	2.131E-07	1.433E-07	8.648E-08	6.063E-08	4.610E-08	3.690E-08	3.059E-08	2.602E-08	2.256E-08	1.987E-08
N	3.929E-07	2.100E-07	1.399E-07	8.332E-08	5.789E-08	4.372E-08	3.480E-08	2.872E-08	2.433E-08	2.102E-08	1.846E-08
NNE	2.718E-07	1.436E-07	9.485E-08	5.587E-08	3.852E-08	2.893E-08	2.292E-08	1.884E-08	1.591E-08	1.371E-08	1.200E-08
NE	1.398E-07	7.335E-08	4.824E-08	2.824E-08	1.938E-08	1.451E-08	1.146E-08	9.401E-09	7.922E-09	6.815E-09	5.959E-09
ENE	1.036E-07	5.440E-08	3.578E-08	2.094E-08	1.438E-08	1.076E-08	8.498E-09	6.968E-09	5.870E-09	5.049E-09	4.413E-09
E	1.006E-07	5.337E-08	3.536E-08	2.092E-08	1.447E-08	1.089E-08	8.641E-09	7.113E-09	6.014E-09	5.188E-09	4.547E-09
ESE	9.574E-08	4.988E-08	3.264E-08	1.897E-08	1.296E-08	9.665E-09	7.613E-09	6.227E-09	5.236E-09	4.495E-09	3.923E-09
SE	1.540E-07	8.050E-08	5.279E-08	3.078E-08	2.108E-08	1.575E-08	1.242E-08	1.018E-08	8.564E-09	7.360E-09	6.429E-09
SSE	1.935E-07	1.019E-07	6.716E-08	3.945E-08	2.716E-08	2.038E-08	1.613E-08	1.325E-08	1.118E-08	9.631E-09	8.430E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.782E-06	1.606E-06	5.083E-07	2.601E-07	1.631E-07	7.343E-08	2.697E-08	1.352E-08	8.666E-09	6.239E-09
SSW	2.468E-06	5.735E-07	1.763E-07	8.867E-08	5.489E-08	2.417E-08	8.560E-09	4.168E-09	2.625E-09	1.866E-09
SW	1.780E-06	4.176E-07	1.397E-07	7.378E-08	4.728E-08	2.204E-08	8.561E-09	4.477E-09	2.947E-09	2.163E-09
WSW	1.365E-06	3.178E-07	1.022E-07	5.279E-08	3.332E-08	1.516E-08	5.670E-09	2.882E-09	1.864E-09	1.352E-09
W	1.587E-06	3.735E-07	1.234E-07	6.471E-08	4.127E-08	1.910E-08	7.325E-09	3.792E-09	2.480E-09	1.812E-09
WNW	2.479E-06	5.738E-07	1.875E-07	9.780E-08	6.215E-08	2.861E-08	1.089E-08	5.611E-09	3.661E-09	2.670E-09
NW	6.954E-06	1.631E-06	5.405E-07	2.840E-07	1.814E-07	8.417E-08	3.242E-08	1.684E-08	1.104E-08	8.075E-09
NNW	1.704E-05	4.008E-06	1.368E-06	7.297E-07	4.709E-07	2.220E-07	8.761E-08	4.630E-08	3.065E-08	2.259E-08
N	1.776E-05	4.232E-06	1.407E-06	7.398E-07	4.728E-07	2.195E-07	8.459E-08	4.393E-08	2.878E-08	2.105E-08
NNE	1.284E-05	3.060E-06	9.958E-07	5.178E-07	3.283E-07	1.504E-07	5.682E-08	2.908E-08	1.889E-08	1.373E-08
NE	6.773E-06	1.609E-06	5.184E-07	2.679E-07	1.691E-07	7.695E-08	2.875E-08	1.459E-08	9.427E-09	6.826E-09
ENE	4.916E-06	1.187E-06	3.835E-07	1.984E-07	1.253E-07	5.706E-08	2.132E-08	1.082E-08	6.987E-09	5.057E-09
E	4.655E-06	1.113E-06	3.652E-07	1.908E-07	1.213E-07	5.586E-08	2.126E-08	1.094E-08	7.131E-09	5.195E-09
ESE	4.747E-06	1.131E-06	3.599E-07	1.847E-07	1.161E-07	5.241E-08	1.934E-08	9.723E-09	6.245E-09	4.503E-09
SE	7.558E-06	1.799E-06	5.755E-07	2.963E-07	1.866E-07	8.452E-08	3.136E-08	1.584E-08	1.020E-08	7.372E-09
SSE	9.374E-06	2.213E-06	7.145E-07	3.700E-07	2.340E-07	1.068E-07	4.015E-08	2.049E-08	1.329E-08	9.645E-09

VENTS GROUND LEVEL RELEASES - OCT-DEC 2002
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.889E-05	1.292E-05	6.988E-06	3.524E-06	1.419E-06	7.691E-07	4.875E-07	3.402E-07	2.532E-07	1.973E-07	1.592E-07
SSW	1.354E-05	4.712E-06	2.547E-06	1.275E-06	5.038E-07	2.693E-07	1.689E-07	1.169E-07	8.634E-08	6.686E-08	5.363E-08
SW	1.157E-05	3.511E-06	1.794E-06	8.917E-07	3.732E-07	2.075E-07	1.341E-07	9.502E-08	7.161E-08	5.640E-08	4.591E-08
WSW	8.095E-06	2.653E-06	1.390E-06	6.912E-07	2.812E-07	1.534E-07	9.775E-08	6.848E-08	5.113E-08	3.996E-08	3.231E-08
W	9.853E-06	3.097E-06	1.609E-06	8.022E-07	3.326E-07	1.839E-07	1.183E-07	8.350E-08	6.274E-08	4.930E-08	4.004E-08
WNW	1.504E-05	4.874E-06	2.514E-06	1.241E-06	5.103E-07	2.808E-07	1.800E-07	1.268E-07	9.511E-08	7.462E-08	6.054E-08
NW	4.308E-05	1.362E-05	7.049E-06	3.501E-06	1.455E-06	8.055E-07	5.190E-07	3.669E-07	2.760E-07	2.171E-07	1.765E-07
NNW	1.125E-04	3.379E-05	1.711E-05	8.480E-06	3.599E-06	2.020E-06	1.315E-06	9.365E-07	7.090E-07	5.606E-07	4.578E-07
N	1.119E-04	3.445E-05	1.805E-05	9.074E-06	3.781E-06	2.097E-06	1.352E-06	9.566E-07	7.200E-07	5.666E-07	4.609E-07
NNE	7.746E-05	2.464E-05	1.314E-05	6.623E-06	2.719E-06	1.492E-06	9.553E-07	6.717E-07	5.031E-07	3.942E-07	3.195E-07
NE	4.012E-05	1.297E-05	6.945E-06	3.502E-06	1.427E-06	7.798E-07	4.973E-07	3.487E-07	2.606E-07	2.038E-07	1.648E-07
ENE	2.947E-05	9.323E-06	5.058E-06	2.578E-06	1.054E-06	5.769E-07	3.683E-07	2.585E-07	1.933E-07	1.512E-07	1.224E-07
E	2.865E-05	8.962E-06	4.757E-06	2.401E-06	9.922E-07	5.472E-07	3.515E-07	2.478E-07	1.861E-07	1.461E-07	1.186E-07
ESE	2.763E-05	9.028E-06	4.889E-06	2.475E-06	1.001E-06	5.440E-07	3.456E-07	2.416E-07	1.800E-07	1.405E-07	1.134E-07
SE	4.422E-05	1.441E-05	7.772E-06	3.927E-06	1.594E-06	8.680E-07	5.522E-07	3.865E-07	2.883E-07	2.252E-07	1.820E-07
SSE	5.615E-05	1.807E-05	9.588E-06	4.810E-06	1.963E-06	1.074E-06	6.858E-07	4.813E-07	3.600E-07	2.817E-07	2.281E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.319E-07	6.784E-08	4.387E-08	2.493E-08	1.666E-08	1.216E-08	9.372E-09	7.504E-09	6.177E-09	5.193E-09	4.438E-09
SSW	4.421E-08	2.230E-08	1.422E-08	7.930E-09	5.231E-09	3.780E-09	2.892E-09	2.302E-09	1.885E-09	1.578E-09	1.344E-09
SW	3.834E-08	2.031E-08	1.339E-08	7.801E-09	5.297E-09	3.906E-09	3.035E-09	2.443E-09	2.018E-09	1.701E-09	1.456E-09
WSW	2.682E-08	1.388E-08	9.011E-09	5.137E-09	3.434E-09	2.502E-09	1.925E-09	1.537E-09	1.261E-09	1.056E-09	8.991E-10
W	3.338E-08	1.755E-08	1.151E-08	6.658E-09	4.495E-09	3.300E-09	2.555E-09	2.050E-09	1.690E-09	1.420E-09	1.213E-09
WNW	5.042E-08	2.644E-08	1.732E-08	1.002E-08	6.771E-09	4.981E-09	3.865E-09	3.110E-09	2.570E-09	2.167E-09	1.856E-09
NW	1.473E-07	7.774E-08	5.115E-08	2.973E-08	2.016E-08	1.486E-08	1.155E-08	9.299E-09	7.688E-09	6.485E-09	5.557E-09
NNW	3.835E-07	2.054E-07	1.364E-07	8.030E-08	5.492E-08	4.074E-08	3.180E-08	2.572E-08	2.134E-08	1.805E-08	1.551E-08
N	3.847E-07	2.034E-07	1.340E-07	7.812E-08	5.311E-08	3.925E-08	3.057E-08	2.469E-08	2.046E-08	1.731E-08	1.487E-08
NNE	2.657E-07	1.387E-07	9.060E-08	5.213E-08	3.511E-08	2.576E-08	1.993E-08	1.601E-08	1.320E-08	1.111E-08	9.505E-09
NE	1.369E-07	7.108E-08	4.625E-08	2.649E-08	1.780E-08	1.303E-08	1.008E-08	8.088E-09	6.670E-09	5.615E-09	4.805E-09
ENE	1.017E-07	5.287E-08	3.444E-08	1.977E-08	1.331E-08	9.765E-09	7.565E-09	6.084E-09	5.027E-09	4.241E-09	3.637E-09
E	9.885E-08	5.198E-08	3.414E-08	1.983E-08	1.347E-08	9.955E-09	7.760E-09	6.274E-09	5.210E-09	4.415E-09	3.801E-09
ESE	9.406E-08	4.856E-08	3.148E-08	1.796E-08	1.204E-08	8.809E-09	6.809E-09	5.466E-09	4.509E-09	3.799E-09	3.254E-09
SE	1.510E-07	7.809E-08	5.068E-08	2.893E-08	1.940E-08	1.419E-08	1.096E-08	8.783E-09	7.237E-09	6.088E-09	5.206E-09
SSE	1.896E-07	9.873E-08	6.438E-08	3.700E-08	2.492E-08	1.828E-08	1.415E-08	1.137E-08	9.384E-09	7.905E-09	6.767E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.765E-06	1.598E-06	5.037E-07	2.568E-07	1.604E-07	7.141E-08	2.546E-08	1.224E-08	7.532E-09	5.205E-09
SSW	2.463E-06	5.710E-07	1.749E-07	8.764E-08	5.406E-08	2.358E-08	8.129E-09	3.812E-09	2.312E-09	1.582E-09
SW	1.775E-06	4.148E-07	1.381E-07	7.250E-08	4.622E-08	2.124E-08	7.930E-09	3.928E-09	2.450E-09	1.704E-09
WSW	1.360E-06	3.155E-07	1.009E-07	5.183E-08	3.254E-08	1.459E-08	5.241E-09	2.520E-09	1.543E-09	1.059E-09
W	1.581E-06	3.709E-07	1.219E-07	6.355E-08	4.032E-08	1.838E-08	6.775E-09	3.321E-09	2.057E-09	1.423E-09
WNW	2.472E-06	5.706E-07	1.856E-07	9.636E-08	6.096E-08	2.771E-08	1.020E-08	5.012E-09	3.120E-09	2.171E-09
NW	6.932E-06	1.621E-06	5.345E-07	2.795E-07	1.777E-07	8.137E-08	3.024E-08	1.495E-08	9.327E-09	6.498E-09
NNW	1.698E-05	3.982E-06	1.352E-06	7.174E-07	4.607E-07	2.143E-07	8.149E-08	4.094E-08	2.579E-08	1.808E-08
N	1.771E-05	4.209E-06	1.392E-06	7.292E-07	4.640E-07	2.129E-07	7.943E-08	3.947E-08	2.476E-08	1.734E-08
NNE	1.280E-05	3.041E-06	9.851E-07	5.098E-07	3.217E-07	1.456E-07	5.312E-08	2.592E-08	1.606E-08	1.114E-08
NE	6.754E-06	1.601E-06	5.132E-07	2.641E-07	1.660E-07	7.467E-08	2.702E-08	1.312E-08	8.117E-09	5.628E-09
ENE	4.904E-06	1.181E-06	3.800E-07	1.959E-07	1.232E-07	5.552E-08	2.016E-08	9.830E-09	6.105E-09	4.250E-09
E	4.644E-06	1.108E-06	3.622E-07	1.885E-07	1.194E-07	5.447E-08	2.018E-08	1.001E-08	6.293E-09	4.423E-09
ESE	4.736E-06	1.125E-06	3.569E-07	1.825E-07	1.143E-07	5.108E-08	1.833E-08	8.871E-09	5.485E-09	3.807E-09
SE	7.538E-06	1.790E-06	5.701E-07	2.923E-07	1.833E-07	8.211E-08	2.953E-08	1.428E-08	8.815E-09	6.102E-09
SSE	9.349E-06	2.201E-06	7.076E-07	3.648E-07	2.297E-07	1.036E-07	3.771E-08	1.840E-08	1.141E-08	7.922E-09

VENTS GROUND LEVEL RELEASES - OCT-DEC 2002
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.683E-05	1.181E-05	6.239E-06	3.093E-06	1.210E-06	6.402E-07	3.976E-07	2.724E-07	1.994E-07	1.531E-07	1.218E-07
SSW	1.282E-05	4.308E-06	2.273E-06	1.119E-06	4.294E-07	2.241E-07	1.377E-07	9.350E-08	6.794E-08	5.183E-08	4.100E-08
SW	1.096E-05	3.212E-06	1.603E-06	7.832E-07	3.186E-07	1.731E-07	1.096E-07	7.629E-08	5.659E-08	4.393E-08	3.529E-08
WSW	7.669E-06	2.427E-06	1.243E-06	6.073E-07	2.401E-07	1.280E-07	7.993E-08	5.502E-08	4.043E-08	3.114E-08	2.485E-08
W	9.334E-06	2.833E-06	1.438E-06	7.048E-07	2.841E-07	1.534E-07	9.671E-08	6.707E-08	4.961E-08	3.842E-08	3.079E-08
WNW	1.424E-05	4.457E-06	2.245E-06	1.089E-06	4.354E-07	2.339E-07	1.469E-07	1.016E-07	7.502E-08	5.799E-08	4.642E-08
NW	4.080E-05	1.246E-05	6.297E-06	3.074E-06	1.241E-06	6.714E-07	4.239E-07	2.943E-07	2.179E-07	1.689E-07	1.355E-07
NNW	1.066E-04	3.091E-05	1.529E-05	7.448E-06	3.072E-06	1.685E-06	1.074E-06	7.517E-07	5.600E-07	4.364E-07	3.517E-07
N	1.060E-04	3.151E-05	1.612E-05	7.966E-06	3.225E-06	1.747E-06	1.104E-06	7.667E-07	5.678E-07	4.402E-07	3.533E-07
NNE	7.336E-05	2.254E-05	1.173E-05	5.815E-06	2.320E-06	1.244E-06	7.800E-07	5.387E-07	3.970E-07	3.066E-07	2.451E-07
NE	3.800E-05	1.186E-05	6.202E-06	3.074E-06	1.217E-06	6.495E-07	4.058E-07	2.794E-07	2.054E-07	1.583E-07	1.263E-07
ENE	2.791E-05	8.525E-06	4.516E-06	2.263E-06	8.988E-07	4.803E-07	3.004E-07	2.070E-07	1.522E-07	1.173E-07	9.366E-08
E	2.713E-05	8.194E-06	4.247E-06	2.107E-06	8.457E-07	4.553E-07	2.865E-07	1.983E-07	1.465E-07	1.133E-07	9.071E-08
ESE	2.617E-05	8.254E-06	4.365E-06	2.171E-06	8.532E-07	4.527E-07	2.817E-07	1.933E-07	1.417E-07	1.089E-07	8.674E-08
SE	4.188E-05	1.318E-05	6.940E-06	3.447E-06	1.359E-06	7.227E-07	4.505E-07	3.096E-07	2.272E-07	1.748E-07	1.394E-07
SSE	5.318E-05	1.652E-05	8.562E-06	4.222E-06	1.674E-06	8.945E-07	5.595E-07	3.857E-07	2.838E-07	2.188E-07	1.747E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	9.965E-08	4.884E-08	3.031E-08	1.617E-08	1.030E-08	7.225E-09	5.388E-09	4.191E-09	3.362E-09	2.761E-09	2.310E-09
SSW	3.336E-08	1.602E-08	9.799E-09	5.123E-09	3.216E-09	2.231E-09	1.649E-09	1.273E-09	1.015E-09	8.292E-10	6.905E-10
SW	2.911E-08	1.472E-08	9.336E-09	5.132E-09	3.335E-09	2.376E-09	1.793E-09	1.409E-09	1.140E-09	9.428E-10	7.938E-10
WSW	2.037E-08	1.007E-08	6.292E-09	3.385E-09	2.167E-09	1.526E-09	1.141E-09	8.896E-10	7.149E-10	5.881E-10	4.926E-10
W	2.535E-08	1.273E-08	8.034E-09	4.384E-09	2.834E-09	2.010E-09	1.512E-09	1.185E-09	9.559E-10	7.891E-10	6.632E-10
WNW	3.817E-08	1.908E-08	1.201E-08	6.537E-09	4.219E-09	2.990E-09	2.249E-09	1.761E-09	1.421E-09	1.174E-09	9.866E-10
NW	1.116E-07	5.621E-08	3.555E-08	1.946E-08	1.261E-08	8.963E-09	6.754E-09	5.299E-09	4.282E-09	3.539E-09	2.978E-09
NNW	2.909E-07	1.487E-07	9.494E-08	5.266E-08	3.443E-08	2.463E-08	1.866E-08	1.470E-08	1.193E-08	9.889E-09	8.344E-09
N	2.911E-07	1.467E-07	9.285E-08	5.087E-08	3.299E-08	2.346E-08	1.769E-08	1.389E-08	1.123E-08	9.287E-09	7.819E-09
NNE	2.013E-07	1.002E-07	6.290E-08	3.406E-08	2.191E-08	1.549E-08	1.162E-08	9.081E-09	7.315E-09	6.029E-09	5.061E-09
NE	1.036E-07	5.125E-08	3.203E-08	1.724E-08	1.105E-08	7.787E-09	5.828E-09	4.547E-09	3.658E-09	3.011E-09	2.525E-09
ENE	7.683E-08	3.804E-08	2.378E-08	1.281E-08	8.213E-09	5.791E-09	4.336E-09	3.384E-09	2.723E-09	2.242E-09	1.881E-09
E	7.462E-08	3.734E-08	2.352E-08	1.281E-08	8.278E-09	5.873E-09	4.420E-09	3.465E-09	2.799E-09	2.313E-09	1.946E-09
ESE	7.101E-08	3.490E-08	2.171E-08	1.162E-08	7.413E-09	5.208E-09	3.889E-09	3.029E-09	2.432E-09	2.000E-09	1.675E-09
SE	1.142E-07	5.626E-08	3.506E-08	1.881E-08	1.202E-08	8.459E-09	6.322E-09	4.926E-09	3.958E-09	3.255E-09	2.727E-09
SSE	1.434E-07	7.119E-08	4.458E-08	2.409E-08	1.548E-08	1.093E-08	8.197E-09	6.405E-09	5.158E-09	4.251E-09	3.567E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.078E-06	1.375E-06	4.122E-07	2.026E-07	1.229E-07	5.190E-08	1.670E-08	7.310E-09	4.217E-09	2.772E-09
SSW	2.212E-06	4.913E-07	1.430E-07	6.911E-08	4.138E-08	1.711E-08	5.315E-09	2.261E-09	1.282E-09	8.329E-10
SW	1.596E-06	3.572E-07	1.132E-07	5.739E-08	3.556E-08	1.552E-08	5.268E-09	2.399E-09	1.416E-09	9.459E-10
WSW	1.223E-06	2.719E-07	8.278E-08	4.106E-08	2.506E-08	1.068E-08	3.490E-09	1.543E-09	8.949E-10	5.903E-10
W	1.422E-06	3.195E-07	9.997E-08	5.033E-08	3.104E-08	1.345E-08	4.507E-09	2.031E-09	1.191E-09	7.919E-10
WNW	2.223E-06	4.911E-07	1.520E-07	7.614E-08	4.679E-08	2.018E-08	6.724E-09	3.021E-09	1.771E-09	1.178E-09
NW	6.234E-06	1.395E-06	4.380E-07	2.211E-07	1.365E-07	5.934E-08	1.999E-08	9.052E-09	5.327E-09	3.552E-09
NNW	1.528E-05	3.428E-06	1.108E-06	5.677E-07	3.543E-07	1.564E-07	5.395E-08	2.486E-08	1.478E-08	9.920E-09
N	1.592E-05	3.622E-06	1.140E-06	5.760E-07	3.560E-07	1.549E-07	5.225E-08	2.369E-08	1.396E-08	9.319E-09
NNE	1.150E-05	2.618E-06	8.072E-07	4.030E-07	2.471E-07	1.061E-07	3.507E-08	1.565E-08	9.133E-09	6.052E-09
NE	6.070E-06	1.378E-06	4.203E-07	2.086E-07	1.274E-07	5.434E-08	1.778E-08	7.874E-09	4.574E-09	3.022E-09
ENE	4.405E-06	1.016E-06	3.110E-07	1.546E-07	9.444E-08	4.032E-08	1.321E-08	5.855E-09	3.404E-09	2.251E-09
E	4.173E-06	9.525E-07	2.962E-07	1.486E-07	9.144E-08	3.948E-08	1.318E-08	5.933E-09	3.484E-09	2.321E-09
ESE	4.254E-06	9.681E-07	2.919E-07	1.440E-07	8.749E-08	3.706E-08	1.199E-08	5.269E-09	3.048E-09	2.008E-09
SE	6.773E-06	1.540E-06	4.667E-07	2.308E-07	1.405E-07	5.971E-08	1.940E-08	8.555E-09	4.956E-09	3.268E-09
SSE	8.402E-06	1.894E-06	5.793E-07	2.881E-07	1.762E-07	7.541E-08	2.482E-08	1.105E-08	6.442E-09	4.266E-09

VENTS GROUND LEVEL RELEASES - OCT-DEC 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.783E-07	6.028E-08	3.095E-08	1.471E-08	5.285E-09	2.621E-09	1.543E-09	1.011E-09	7.111E-10	5.270E-10	4.061E-10
SSW	7.186E-08	2.430E-08	1.248E-08	5.931E-09	2.131E-09	1.057E-09	6.221E-10	4.074E-10	2.866E-10	2.124E-10	1.637E-10
SW	2.902E-08	9.813E-09	5.039E-09	2.395E-09	8.604E-10	4.267E-10	2.513E-10	1.645E-10	1.158E-10	8.579E-11	6.611E-11
WSW	1.796E-08	6.075E-09	3.119E-09	1.483E-09	5.326E-10	2.642E-10	1.555E-10	1.018E-10	7.166E-11	5.311E-11	4.093E-11
W	1.935E-08	6.542E-09	3.359E-09	1.597E-09	5.736E-10	2.845E-10	1.675E-10	1.097E-10	7.717E-11	5.719E-11	4.407E-11
WNW	4.975E-08	1.682E-08	8.637E-09	4.106E-09	1.475E-09	7.315E-10	4.307E-10	2.820E-10	1.985E-10	1.471E-10	1.133E-10
NW	1.175E-07	3.972E-08	2.039E-08	9.696E-09	3.483E-09	1.727E-09	1.017E-09	6.659E-10	4.686E-10	3.472E-10	2.676E-10
NNW	2.045E-07	6.916E-08	3.551E-08	1.683E-08	6.064E-09	3.007E-09	1.771E-09	1.159E-09	8.158E-10	6.046E-10	4.659E-10
N	3.275E-07	1.107E-07	5.686E-08	2.703E-08	9.711E-09	4.816E-09	2.836E-09	1.857E-09	1.306E-09	9.682E-10	7.461E-10
NNE	2.515E-07	8.505E-08	4.367E-08	2.076E-08	7.457E-09	3.698E-09	2.178E-09	1.426E-09	1.003E-09	7.435E-10	5.730E-10
NE	1.575E-07	5.327E-08	2.735E-08	1.300E-08	4.671E-09	2.316E-09	1.364E-09	8.931E-10	6.284E-10	4.657E-10	3.589E-10
ENE	1.271E-07	4.299E-08	2.207E-08	1.049E-08	3.769E-09	1.869E-09	1.101E-09	7.207E-10	5.071E-10	3.758E-10	2.896E-10
E	1.147E-07	3.879E-08	1.991E-08	9.468E-09	3.401E-09	1.687E-09	9.930E-10	6.502E-10	4.575E-10	3.391E-10	2.613E-10
ESE	1.631E-07	5.514E-08	2.831E-08	1.346E-08	4.835E-09	2.398E-09	1.412E-09	9.244E-10	6.505E-10	4.821E-10	3.715E-10
SE	2.156E-07	7.290E-08	3.743E-08	1.779E-08	6.392E-09	3.170E-09	1.866E-09	1.222E-09	8.600E-10	6.373E-10	4.911E-10
SSE	2.708E-07	9.159E-08	4.703E-08	2.236E-08	8.031E-09	3.983E-09	2.345E-09	1.536E-09	1.080E-09	8.007E-10	6.170E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	3.226E-10	1.433E-10	8.682E-11	4.388E-11	2.656E-11	1.781E-11	1.276E-11	9.582E-12	7.450E-12	5.951E-12	4.857E-12
SSW	1.301E-10	5.778E-11	3.500E-11	1.769E-11	1.071E-11	7.179E-12	5.144E-12	3.862E-12	3.003E-12	2.399E-12	1.958E-12
SW	5.252E-11	2.333E-11	1.413E-11	7.144E-12	4.324E-12	2.899E-12	2.077E-12	1.560E-12	1.213E-12	9.688E-13	7.908E-13
WSW	3.251E-11	1.444E-11	8.749E-12	4.422E-12	2.677E-12	1.795E-12	1.286E-12	9.656E-13	7.508E-13	5.997E-13	4.895E-13
W	3.501E-11	1.555E-11	9.422E-12	4.763E-12	2.883E-12	1.933E-12	1.385E-12	1.040E-12	8.085E-13	6.459E-13	5.272E-13
WNW	9.004E-11	4.000E-11	2.423E-11	1.225E-11	7.412E-12	4.970E-12	3.561E-12	2.674E-12	2.079E-12	1.661E-12	1.356E-12
NW	2.126E-10	9.444E-11	5.721E-11	2.892E-11	1.750E-11	1.173E-11	8.408E-12	6.314E-12	4.909E-12	3.921E-12	3.201E-12
NNW	3.702E-10	1.644E-10	9.961E-11	5.035E-11	3.047E-11	2.043E-11	1.464E-11	1.099E-11	8.547E-12	6.828E-12	5.573E-12
N	5.928E-10	2.633E-10	1.595E-10	8.062E-11	4.880E-11	3.272E-11	2.344E-11	1.760E-11	1.369E-11	1.093E-11	8.924E-12
NNE	4.552E-10	2.022E-10	1.225E-10	6.191E-11	3.747E-11	2.512E-11	1.800E-11	1.352E-11	1.051E-11	8.396E-12	6.853E-12
NE	2.851E-10	1.267E-10	7.673E-11	3.878E-11	2.347E-11	1.574E-11	1.128E-11	8.468E-12	6.584E-12	5.259E-12	4.293E-12
ENE	2.301E-10	1.022E-10	6.192E-11	3.130E-11	1.894E-11	1.270E-11	9.101E-12	6.834E-12	5.313E-12	4.244E-12	3.464E-12
E	2.076E-10	9.222E-11	5.586E-11	2.824E-11	1.709E-11	1.146E-11	8.210E-12	6.165E-12	4.793E-12	3.829E-12	3.125E-12
ESE	2.951E-10	1.311E-10	7.942E-11	4.014E-11	2.430E-11	1.629E-11	1.167E-11	8.765E-12	6.815E-12	5.444E-12	4.443E-12
SE	3.902E-10	1.733E-10	1.050E-10	5.307E-11	3.212E-11	2.154E-11	1.543E-11	1.159E-11	9.009E-12	7.197E-12	5.874E-12
SSE	4.902E-10	2.178E-10	1.319E-10	6.668E-11	4.036E-11	2.706E-11	1.939E-11	1.456E-11	1.132E-11	9.042E-12	7.380E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.025E-08	6.197E-09	1.618E-09	7.265E-10	4.110E-10	1.581E-10	4.573E-11	1.812E-11	9.678E-12	5.990E-12
SSW	1.219E-08	2.498E-09	6.521E-10	2.929E-10	1.657E-10	6.371E-11	1.843E-11	7.305E-12	3.901E-12	2.415E-12
SW	4.925E-09	1.009E-09	2.633E-10	1.183E-10	6.691E-11	2.573E-11	7.444E-12	2.950E-12	1.575E-12	9.752E-13
WSW	3.049E-09	6.245E-10	1.630E-10	7.322E-11	4.142E-11	1.593E-11	4.608E-12	1.826E-12	9.753E-13	6.037E-13
W	3.283E-09	6.725E-10	1.756E-10	7.885E-11	4.461E-11	1.715E-11	4.963E-12	1.967E-12	1.050E-12	6.501E-13
WNW	8.443E-09	1.729E-09	4.515E-10	2.028E-10	1.147E-10	4.411E-11	1.276E-11	5.058E-12	2.701E-12	1.672E-12
NW	1.993E-08	4.083E-09	1.066E-09	4.787E-10	2.708E-10	1.041E-10	3.013E-11	1.194E-11	6.377E-12	3.947E-12
NNW	3.471E-08	7.109E-09	1.856E-09	8.336E-10	4.716E-10	1.813E-10	5.246E-11	2.079E-11	1.110E-11	6.872E-12
N	5.558E-08	1.138E-08	2.972E-09	1.335E-09	7.551E-10	2.904E-10	8.401E-11	3.330E-11	1.778E-11	1.101E-11
NNE	4.268E-08	8.743E-09	2.282E-09	1.025E-09	5.799E-10	2.230E-10	6.451E-11	2.557E-11	1.365E-11	8.451E-12
NE	2.673E-08	5.476E-09	1.430E-09	6.421E-10	3.632E-10	1.397E-10	4.041E-11	1.602E-11	8.553E-12	5.294E-12
ENE	2.158E-08	4.419E-09	1.154E-09	5.182E-10	2.931E-10	1.127E-10	3.261E-11	1.292E-11	6.902E-12	4.272E-12
E	1.946E-08	3.987E-09	1.041E-09	4.675E-10	2.645E-10	1.017E-10	2.942E-11	1.166E-11	6.227E-12	3.854E-12
ESE	2.767E-08	5.668E-09	1.480E-09	6.646E-10	3.760E-10	1.446E-10	4.183E-11	1.658E-11	8.853E-12	5.479E-12
SE	3.658E-08	7.494E-09	1.956E-09	8.786E-10	4.970E-10	1.911E-10	5.530E-11	2.192E-11	1.170E-11	7.244E-12
SSE	4.597E-08	9.415E-09	2.458E-09	1.104E-09	6.245E-10	2.402E-10	6.948E-11	2.754E-11	1.470E-11	9.101E-12

VENTS GROUND LEVEL RELEASES - OCT-DEC 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3)	X/Q (SEC/M3)	X/Q (SEC/M3)	D/Q (PER SQ.METER)
		NO DECAY		2.260 DAY DECAY		8.000 DAY DECAY	
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	6.0E-06	6.0E-06	5.4E-06	2.6E-08
A	Site Boundary	SSW	.82	2.0E-06	2.0E-06	1.8E-06	9.8E-09
A	Site Boundary	SW	.97	9.5E-07	9.5E-07	8.3E-07	2.6E-09
A	Site Boundary	WSW	.93	8.4E-07	8.3E-07	7.4E-07	1.8E-09
A	Site Boundary	W	.91	1.0E-06	1.0E-06	8.8E-07	2.0E-09
A	Site Boundary	WNW	.94	1.5E-06	1.4E-06	1.3E-06	4.8E-09
A	Site Boundary	NW	.81	5.8E-06	5.8E-06	5.2E-06	1.7E-08
A	Site Boundary	NNW	.69	2.0E-05	2.0E-05	1.8E-05	4.1E-08
A	Site Boundary	N	.67	2.1E-05	2.1E-05	1.9E-05	6.8E-08
A	Site Boundary	NNE	.60	1.9E-05	1.9E-05	1.7E-05	6.3E-08
A	Site Boundary	NE	.62	9.2E-06	9.2E-06	8.3E-06	3.7E-08
A	Site Boundary	ENE	.59	7.3E-06	7.2E-06	6.6E-06	3.3E-08
A	Site Boundary	E	.53	8.3E-06	8.3E-06	7.5E-06	3.6E-08
A	Site Boundary	ESE	.54	8.1E-06	8.0E-06	7.3E-06	4.9E-08
A	Site Boundary	SE	.65	9.7E-06	9.6E-06	8.7E-06	4.8E-08
A	Site Boundary	SSE	.81	8.0E-06	7.9E-06	7.1E-06	3.8E-08
A	Nearest Res	SW	1.30	5.1E-07	5.0E-07	4.4E-07	1.2E-09
A	Nearest Res	WSW	2.50	9.9E-08	9.8E-08	8.0E-08	1.6E-10
A	Nearest Res	W	1.00	8.1E-07	8.0E-07	7.1E-07	1.6E-09
A	Nearest Res	WNW	1.70	4.0E-07	3.9E-07	3.3E-07	1.1E-09
A	Nearest Res	NW	.90	4.5E-06	4.5E-06	4.0E-06	1.3E-08
A	Nearest Res	NNW	1.90	2.3E-06	2.2E-06	1.9E-06	3.4E-09
A	Nearest Res	N	3.00	9.7E-07	9.6E-07	7.7E-07	1.9E-09
A	Nearest Res	ENE	1.70	8.1E-07	8.1E-07	6.8E-07	2.8E-09
A	Nearest Res	E	1.80	6.8E-07	6.8E-07	5.7E-07	2.2E-09
A	Nearest Res	ESE	2.30	4.1E-07	4.1E-07	3.4E-07	1.7E-09
A	Nearest Cow	NNW	3.50	7.2E-07	7.1E-07	5.6E-07	8.2E-10
A	Nearest Garde	SW	1.30	5.1E-07	5.0E-07	4.4E-07	1.2E-09
A	Nearest Garde	WSW	1.90	1.7E-07	1.7E-07	1.4E-07	3.0E-10
A	Nearest Garde	WNW	2.40	2.0E-07	2.0E-07	1.6E-07	4.7E-10
A	Nearest Garde	NW	2.90	4.0E-07	3.9E-07	3.1E-07	7.2E-10
A	Nearest Garde	NNW	1.90	2.3E-06	2.2E-06	1.9E-06	3.4E-09
A	Nearest Garde	N	3.00	9.7E-07	9.6E-07	7.7E-07	1.9E-09
A	Nearest Garde	ESE	2.30	4.1E-07	4.1E-07	3.4E-07	1.7E-09

Atmospheric Diffusion Estimates

Ground-Level Releases

July-December 2002

VENTS GROUND LEVEL RELEASES - JUL-DEC 2002
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.506E-05	1.496E-05	8.026E-06	4.029E-06	1.631E-06	8.880E-07	5.652E-07	3.959E-07	2.957E-07	2.312E-07	1.871E-07
SSW	1.736E-05	5.970E-06	3.243E-06	1.629E-06	6.480E-07	3.484E-07	2.197E-07	1.527E-07	1.133E-07	8.811E-08	7.095E-08
SW	1.288E-05	4.220E-06	2.265E-06	1.140E-06	4.606E-07	2.504E-07	1.592E-07	1.114E-07	8.309E-08	6.492E-08	5.250E-08
WSW	8.108E-06	2.745E-06	1.465E-06	7.297E-07	2.896E-07	1.556E-07	9.799E-08	6.806E-08	5.048E-08	3.924E-08	3.159E-08
W	1.119E-05	3.799E-06	2.037E-06	1.017E-06	4.052E-07	2.182E-07	1.377E-07	9.584E-08	7.120E-08	5.541E-08	4.466E-08
WNW	1.677E-05	5.755E-06	3.063E-06	1.520E-06	6.017E-07	3.226E-07	2.030E-07	1.409E-07	1.045E-07	8.118E-08	6.533E-08
NW	4.277E-05	1.423E-05	7.575E-06	3.778E-06	1.518E-06	8.222E-07	5.216E-07	3.644E-07	2.716E-07	2.120E-07	1.713E-07
NNW	8.358E-05	2.613E-05	1.356E-05	6.753E-06	2.808E-06	1.557E-06	1.005E-06	7.117E-07	5.365E-07	4.229E-07	3.446E-07
N	9.940E-05	3.132E-05	1.667E-05	8.402E-06	3.454E-06	1.900E-06	1.219E-06	8.590E-07	6.449E-07	5.065E-07	4.115E-07
NNE	5.504E-05	1.762E-05	9.511E-06	4.824E-06	1.974E-06	1.082E-06	6.920E-07	4.866E-07	3.646E-07	2.858E-07	2.318E-07
NE	3.200E-05	1.024E-05	5.465E-06	2.756E-06	1.130E-06	6.201E-07	3.971E-07	2.794E-07	2.095E-07	1.644E-07	1.334E-07
ENE	2.130E-05	6.652E-06	3.602E-06	1.839E-06	7.564E-07	4.160E-07	2.667E-07	1.878E-07	1.409E-07	1.106E-07	8.982E-08
E	2.133E-05	6.605E-06	3.517E-06	1.783E-06	7.396E-07	4.091E-07	2.635E-07	1.863E-07	1.402E-07	1.103E-07	8.976E-08
ESE	2.464E-05	7.774E-06	4.158E-06	2.105E-06	8.662E-07	4.767E-07	3.059E-07	2.156E-07	1.618E-07	1.271E-07	1.033E-07
SE	3.971E-05	1.257E-05	6.639E-06	3.337E-06	1.378E-06	7.604E-07	4.888E-07	3.451E-07	2.594E-07	2.040E-07	1.659E-07
SSE	5.652E-05	1.816E-05	9.704E-06	4.891E-06	2.000E-06	1.096E-06	7.011E-07	4.930E-07	3.695E-07	2.897E-07	2.350E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.555E-07	8.119E-08	5.320E-08	3.100E-08	2.122E-08	1.584E-08	1.250E-08	1.023E-08	8.613E-09	7.401E-09	6.464E-09
SSW	5.871E-08	3.015E-08	1.953E-08	1.119E-08	7.575E-09	5.607E-09	4.391E-09	3.573E-09	2.991E-09	2.558E-09	2.225E-09
SW	4.360E-08	2.270E-08	1.485E-08	8.633E-09	5.902E-09	4.403E-09	3.470E-09	2.840E-09	2.389E-09	2.052E-09	1.791E-09
WSW	2.613E-08	1.341E-08	8.687E-09	4.982E-09	3.376E-09	2.502E-09	1.961E-09	1.598E-09	1.339E-09	1.146E-09	9.981E-10
W	3.699E-08	1.905E-08	1.237E-08	7.125E-09	4.844E-09	3.598E-09	2.826E-09	2.306E-09	1.935E-09	1.659E-09	1.445E-09
WNW	5.404E-08	2.773E-08	1.796E-08	1.031E-08	6.989E-09	5.182E-09	4.064E-09	3.313E-09	2.777E-09	2.378E-09	2.071E-09
NW	1.422E-07	7.404E-08	4.843E-08	2.816E-08	1.926E-08	1.437E-08	1.133E-08	9.275E-09	7.804E-09	6.705E-09	5.855E-09
NNW	2.881E-07	1.539E-07	1.025E-07	6.105E-08	4.243E-08	3.206E-08	2.553E-08	2.107E-08	1.785E-08	1.543E-08	1.355E-08
N	3.432E-07	1.816E-07	1.201E-07	7.088E-08	4.897E-08	3.682E-08	2.920E-08	2.403E-08	2.030E-08	1.751E-08	1.534E-08
NNE	1.930E-07	1.015E-07	6.680E-08	3.916E-08	2.692E-08	2.016E-08	1.594E-08	1.308E-08	1.103E-08	9.488E-09	8.298E-09
NE	1.112E-07	5.856E-08	3.862E-08	2.270E-08	1.563E-08	1.172E-08	9.280E-09	7.623E-09	6.432E-09	5.540E-09	4.849E-09
ENE	7.485E-08	3.946E-08	2.603E-08	1.530E-08	1.053E-08	7.902E-09	6.254E-09	5.136E-09	4.333E-09	3.731E-09	3.265E-09
E	7.496E-08	3.982E-08	2.641E-08	1.564E-08	1.082E-08	8.147E-09	6.468E-09	5.326E-09	4.504E-09	3.886E-09	3.406E-09
ESE	8.609E-08	4.549E-08	3.005E-08	1.771E-08	1.221E-08	9.173E-09	7.269E-09	5.975E-09	5.046E-09	4.348E-09	3.808E-09
SE	1.384E-07	7.339E-08	4.861E-08	2.874E-08	1.987E-08	1.495E-08	1.187E-08	9.768E-09	8.258E-09	7.124E-09	6.244E-09
SSE	1.957E-07	1.030E-07	6.786E-08	3.984E-08	2.742E-08	2.056E-08	1.627E-08	1.336E-08	1.127E-08	9.707E-09	8.494E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.791E-06	1.834E-06	5.836E-07	2.998E-07	1.885E-07	8.527E-08	3.158E-08	1.594E-08	1.026E-08	7.413E-09
SSW	3.132E-06	7.329E-07	2.272E-07	1.150E-07	7.150E-08	3.178E-08	1.144E-08	5.645E-09	3.585E-09	2.563E-09
SW	2.199E-06	5.181E-07	1.644E-07	8.424E-08	5.288E-08	2.386E-08	8.801E-09	4.429E-09	2.848E-09	2.055E-09
WSW	1.423E-06	3.278E-07	1.014E-07	5.122E-08	3.184E-08	1.414E-08	5.092E-09	2.519E-09	1.603E-09	1.149E-09
W	1.975E-06	4.581E-07	1.424E-07	7.223E-08	4.501E-08	2.007E-08	7.277E-09	3.621E-09	2.313E-09	1.662E-09
WNW	2.976E-06	6.817E-07	2.101E-07	1.060E-07	6.584E-08	2.924E-08	1.053E-08	5.217E-09	3.323E-09	2.383E-09
NW	7.366E-06	1.711E-06	5.389E-07	2.754E-07	1.726E-07	7.782E-08	2.871E-08	1.446E-08	9.302E-09	6.716E-09
NNW	1.333E-05	3.129E-06	1.035E-06	5.433E-07	3.469E-07	1.609E-07	6.199E-08	3.221E-08	2.112E-08	1.545E-08
N	1.625E-05	3.863E-06	1.256E-06	6.533E-07	4.144E-07	1.902E-07	7.208E-08	3.701E-08	2.409E-08	1.753E-08
NNE	9.230E-06	2.211E-06	7.138E-07	3.694E-07	2.335E-07	1.064E-07	3.986E-08	2.027E-08	1.311E-08	9.503E-09
NE	5.321E-06	1.265E-06	4.095E-07	2.123E-07	1.343E-07	6.139E-08	2.309E-08	1.179E-08	7.643E-09	5.548E-09
ENE	3.496E-06	8.456E-07	2.750E-07	1.428E-07	9.044E-08	4.135E-08	1.556E-08	7.945E-09	5.150E-09	3.737E-09
E	3.432E-06	8.245E-07	2.714E-07	1.420E-07	9.037E-08	4.167E-08	1.589E-08	8.189E-09	5.339E-09	3.891E-09
ESE	4.049E-06	9.683E-07	3.153E-07	1.640E-07	1.040E-07	4.765E-08	1.801E-08	9.222E-09	5.991E-09	4.355E-09
SE	6.488E-06	1.539E-06	5.038E-07	2.628E-07	1.670E-07	7.683E-08	2.921E-08	1.503E-08	9.792E-09	7.134E-09
SSE	9.443E-06	2.241E-06	7.232E-07	3.744E-07	2.367E-07	1.080E-07	4.055E-08	2.067E-08	1.340E-08	9.722E-09

VENTS GROUND LEVEL RELEASES - JUL-DEC 2002
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.501E-05	1.493E-05	8.002E-06	4.013E-06	1.621E-06	8.807E-07	5.594E-07	3.910E-07	2.914E-07	2.274E-07	1.836E-07
SSW	1.734E-05	5.959E-06	3.234E-06	1.623E-06	6.442E-07	3.457E-07	2.175E-07	1.509E-07	1.117E-07	8.671E-08	6.968E-08
SW	1.286E-05	4.210E-06	2.257E-06	1.135E-06	4.575E-07	2.481E-07	1.573E-07	1.098E-07	8.176E-08	6.373E-08	5.141E-08
WSW	8.100E-06	2.740E-06	1.460E-06	7.267E-07	2.878E-07	1.542E-07	9.695E-08	6.720E-08	4.973E-08	3.857E-08	3.098E-08
W	1.118E-05	3.792E-06	2.031E-06	1.013E-06	4.028E-07	2.164E-07	1.363E-07	9.467E-08	7.017E-08	5.450E-08	4.383E-08
WNW	1.676E-05	5.745E-06	3.056E-06	1.515E-06	5.986E-07	3.204E-07	2.013E-07	1.395E-07	1.032E-07	8.003E-08	6.428E-08
NW	4.273E-05	1.421E-05	7.555E-06	3.765E-06	1.510E-06	8.164E-07	5.169E-07	3.604E-07	2.681E-07	2.089E-07	1.685E-07
NNW	8.349E-05	2.608E-05	1.351E-05	6.723E-06	2.789E-06	1.543E-06	9.936E-07	7.021E-07	5.280E-07	4.152E-07	3.375E-07
N	9.930E-05	3.126E-05	1.662E-05	8.369E-06	3.433E-06	1.885E-06	1.206E-06	8.485E-07	6.357E-07	4.983E-07	4.040E-07
NNE	5.498E-05	1.758E-05	9.481E-06	4.804E-06	1.961E-06	1.073E-06	6.846E-07	4.803E-07	3.590E-07	2.809E-07	2.273E-07
NE	3.196E-05	1.021E-05	5.447E-06	2.744E-06	1.122E-06	6.147E-07	3.927E-07	2.758E-07	2.063E-07	1.615E-07	1.308E-07
ENE	2.128E-05	6.638E-06	3.591E-06	1.831E-06	7.517E-07	4.125E-07	2.639E-07	1.855E-07	1.389E-07	1.088E-07	8.810E-08
E	2.131E-05	6.592E-06	3.506E-06	1.775E-06	7.350E-07	4.058E-07	2.608E-07	1.840E-07	1.381E-07	1.085E-07	8.809E-08
ESE	2.461E-05	7.758E-06	4.145E-06	2.096E-06	8.608E-07	4.727E-07	3.026E-07	2.128E-07	1.594E-07	1.249E-07	1.013E-07
SE	3.966E-05	1.254E-05	6.618E-06	3.323E-06	1.369E-06	7.538E-07	4.835E-07	3.405E-07	2.554E-07	2.004E-07	1.626E-07
SSE	5.646E-05	1.812E-05	9.674E-06	4.871E-06	1.987E-06	1.087E-06	6.936E-07	4.867E-07	3.639E-07	2.847E-07	2.304E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.522E-07	7.861E-08	5.095E-08	2.904E-08	1.944E-08	1.420E-08	1.095E-08	8.771E-09	7.219E-09	6.067E-09	5.183E-09
SSW	5.754E-08	2.925E-08	1.875E-08	1.052E-08	6.972E-09	5.053E-09	3.874E-09	3.087E-09	2.530E-09	2.119E-09	1.804E-09
SW	4.259E-08	2.191E-08	1.416E-08	8.034E-09	5.359E-09	3.901E-09	3.000E-09	2.395E-09	1.966E-09	1.647E-09	1.403E-09
WSW	2.557E-08	1.298E-08	8.314E-09	4.662E-09	3.088E-09	2.238E-09	1.715E-09	1.366E-09	1.119E-09	9.368E-10	7.974E-10
W	3.622E-08	1.846E-08	1.186E-08	6.679E-09	4.442E-09	3.228E-09	2.480E-09	1.980E-09	1.625E-09	1.362E-09	1.161E-09
WNW	5.308E-08	2.699E-08	1.732E-08	9.748E-09	6.484E-09	4.716E-09	3.628E-09	2.900E-09	2.385E-09	2.003E-09	1.711E-09
NW	1.396E-07	7.197E-08	4.662E-08	2.657E-08	1.781E-08	1.303E-08	1.007E-08	8.081E-09	6.664E-09	5.612E-09	4.804E-09
NNW	2.816E-07	1.487E-07	9.786E-08	5.693E-08	3.864E-08	2.851E-08	2.217E-08	1.787E-08	1.479E-08	1.249E-08	1.071E-08
N	3.362E-07	1.760E-07	1.152E-07	6.656E-08	4.502E-08	3.314E-08	2.573E-08	2.073E-08	1.715E-08	1.448E-08	1.242E-08
NNE	1.888E-07	9.814E-08	6.389E-08	3.661E-08	2.460E-08	1.801E-08	1.392E-08	1.116E-08	9.198E-09	7.738E-09	6.615E-09
NE	1.087E-07	5.661E-08	3.690E-08	2.119E-08	1.425E-08	1.045E-08	8.078E-09	6.482E-09	5.343E-09	4.496E-09	3.844E-09
ENE	7.326E-08	3.820E-08	2.492E-08	1.433E-08	9.650E-09	7.081E-09	5.482E-09	4.404E-09	3.635E-09	3.062E-09	2.622E-09
E	7.340E-08	3.858E-08	2.532E-08	1.467E-08	9.936E-09	7.322E-09	5.690E-09	4.586E-09	3.796E-09	3.206E-09	2.751E-09
ESE	8.425E-08	4.402E-08	2.876E-08	1.656E-08	1.117E-08	8.201E-09	6.352E-09	5.105E-09	4.213E-09	3.550E-09	3.039E-09
SE	1.353E-07	7.092E-08	4.642E-08	2.680E-08	1.810E-08	1.330E-08	1.030E-08	8.281E-09	6.835E-09	5.757E-09	4.927E-09
SSE	1.915E-07	9.960E-08	6.488E-08	3.722E-08	2.503E-08	1.834E-08	1.418E-08	1.137E-08	9.374E-09	7.886E-09	6.743E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.769E-06	1.824E-06	5.777E-07	2.954E-07	1.849E-07	8.268E-08	2.964E-08	1.430E-08	8.803E-09	6.081E-09
SSW	3.124E-06	7.291E-07	2.251E-07	1.134E-07	7.023E-08	3.087E-08	1.077E-08	5.093E-09	3.099E-09	2.124E-09
SW	2.192E-06	5.150E-07	1.625E-07	8.291E-08	5.179E-08	2.306E-08	8.207E-09	3.929E-09	2.404E-09	1.651E-09
WSW	1.418E-06	3.260E-07	1.003E-07	5.047E-08	3.123E-08	1.370E-08	4.774E-09	2.255E-09	1.372E-09	9.392E-10
W	1.970E-06	4.556E-07	1.410E-07	7.120E-08	4.417E-08	1.947E-08	6.836E-09	3.253E-09	1.988E-09	1.366E-09
WNW	2.969E-06	6.786E-07	2.083E-07	1.047E-07	6.480E-08	2.849E-08	9.979E-09	4.752E-09	2.912E-09	2.008E-09
NW	7.348E-06	1.703E-06	5.341E-07	2.719E-07	1.698E-07	7.573E-08	2.713E-08	1.312E-08	8.110E-09	5.625E-09
NNW	1.329E-05	3.110E-06	1.024E-06	5.348E-07	3.398E-07	1.556E-07	5.790E-08	2.868E-08	1.793E-08	1.251E-08
N	1.620E-05	3.842E-06	1.244E-06	6.442E-07	4.068E-07	1.846E-07	6.779E-08	3.334E-08	2.079E-08	1.451E-08
NNE	9.203E-06	2.198E-06	7.063E-07	3.639E-07	2.289E-07	1.031E-07	3.733E-08	1.813E-08	1.120E-08	7.755E-09
NE	5.305E-06	1.257E-06	4.051E-07	2.091E-07	1.317E-07	5.943E-08	2.160E-08	1.051E-08	6.504E-09	4.505E-09
ENE	3.486E-06	8.408E-07	2.721E-07	1.407E-07	8.872E-08	4.009E-08	1.460E-08	7.127E-09	4.419E-09	3.069E-09
E	3.423E-06	8.199E-07	2.687E-07	1.399E-07	8.869E-08	4.043E-08	1.493E-08	7.366E-09	4.600E-09	3.212E-09
ESE	4.037E-06	9.628E-07	3.121E-07	1.616E-07	1.020E-07	4.618E-08	1.688E-08	8.253E-09	5.122E-09	3.557E-09
SE	6.469E-06	1.530E-06	4.984E-07	2.588E-07	1.637E-07	7.435E-08	2.729E-08	1.338E-08	8.308E-09	5.769E-09
SSE	9.416E-06	2.228E-06	7.157E-07	3.688E-07	2.321E-07	1.046E-07	3.795E-08	1.846E-08	1.141E-08	7.904E-09

VENTS GROUND LEVEL RELEASES - JUL-DEC 2002
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.263E-05	1.366E-05	7.146E-06	3.523E-06	1.383E-06	7.336E-07	4.565E-07	3.134E-07	2.298E-07	1.767E-07	1.407E-07
SSW	1.642E-05	5.449E-06	2.888E-06	1.425E-06	5.494E-07	2.879E-07	1.775E-07	1.209E-07	8.807E-08	6.733E-08	5.337E-08
SW	1.219E-05	3.851E-06	2.016E-06	9.966E-07	3.904E-07	2.068E-07	1.285E-07	8.811E-08	6.454E-08	4.957E-08	3.946E-08
WSW	7.671E-06	2.505E-06	1.304E-06	6.380E-07	2.455E-07	1.285E-07	7.914E-08	5.387E-08	3.922E-08	2.998E-08	2.375E-08
W	1.059E-05	3.467E-06	1.814E-06	8.895E-07	3.435E-07	1.803E-07	1.112E-07	7.586E-08	5.533E-08	4.234E-08	3.359E-08
WNW	1.587E-05	5.253E-06	2.728E-06	1.329E-06	5.103E-07	2.666E-07	1.641E-07	1.116E-07	8.124E-08	6.207E-08	4.917E-08
NW	4.047E-05	1.299E-05	6.745E-06	3.304E-06	1.287E-06	6.795E-07	4.214E-07	2.885E-07	2.112E-07	1.621E-07	1.289E-07
NNW	7.908E-05	2.385E-05	1.207E-05	5.904E-06	2.380E-06	1.286E-06	8.114E-07	5.632E-07	4.168E-07	3.229E-07	2.590E-07
N	9.405E-05	2.858E-05	1.484E-05	7.347E-06	2.928E-06	1.570E-06	9.844E-07	6.799E-07	5.012E-07	3.870E-07	3.095E-07
NNE	5.208E-05	1.608E-05	8.468E-06	4.218E-06	1.673E-06	8.937E-07	5.589E-07	3.851E-07	2.832E-07	2.183E-07	1.743E-07
NE	3.028E-05	9.342E-06	4.865E-06	2.410E-06	9.577E-07	5.122E-07	3.206E-07	2.211E-07	1.628E-07	1.256E-07	1.003E-07
ENE	2.015E-05	6.071E-06	3.207E-06	1.608E-06	6.412E-07	3.436E-07	2.154E-07	1.487E-07	1.095E-07	8.451E-08	6.754E-08
E	2.018E-05	6.028E-06	3.131E-06	1.559E-06	6.270E-07	3.380E-07	2.128E-07	1.474E-07	1.089E-07	8.428E-08	6.751E-08
ESE	2.331E-05	7.095E-06	3.702E-06	1.840E-06	7.343E-07	3.938E-07	2.470E-07	1.706E-07	1.258E-07	9.710E-08	7.764E-08
SE	3.757E-05	1.147E-05	5.911E-06	2.917E-06	1.168E-06	6.281E-07	3.947E-07	2.731E-07	2.016E-07	1.558E-07	1.247E-07
SSE	5.347E-05	1.657E-05	8.640E-06	4.276E-06	1.695E-06	9.054E-07	5.662E-07	3.902E-07	2.870E-07	2.213E-07	1.767E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.152E-07	5.671E-08	3.531E-08	1.892E-08	1.209E-08	8.498E-09	6.348E-09	4.945E-09	3.972E-09	3.265E-09	2.735E-09
SSW	4.352E-08	2.107E-08	1.297E-08	6.840E-09	4.321E-09	3.012E-09	2.235E-09	1.730E-09	1.383E-09	1.132E-09	9.444E-10
SW	3.229E-08	1.585E-08	9.844E-09	5.260E-09	3.354E-09	2.354E-09	1.756E-09	1.366E-09	1.096E-09	9.001E-10	7.531E-10
WSW	1.936E-08	9.368E-09	5.764E-09	3.040E-09	1.922E-09	1.341E-09	9.957E-10	7.716E-10	6.170E-10	5.054E-10	4.219E-10
W	2.741E-08	1.331E-08	8.213E-09	4.350E-09	2.760E-09	1.931E-09	1.436E-09	1.115E-09	8.928E-10	7.322E-10	6.119E-10
WNW	4.008E-08	1.940E-08	1.194E-08	6.309E-09	3.996E-09	2.792E-09	2.075E-09	1.610E-09	1.289E-09	1.057E-09	8.835E-10
NW	1.055E-07	5.178E-08	3.219E-08	1.722E-08	1.100E-08	7.734E-09	5.778E-09	4.502E-09	3.617E-09	2.975E-09	2.493E-09
NNW	2.134E-07	1.075E-07	6.797E-08	3.722E-08	2.413E-08	1.716E-08	1.293E-08	1.015E-08	8.206E-09	6.785E-09	5.711E-09
N	2.543E-07	1.269E-07	7.974E-08	4.330E-08	2.792E-08	1.977E-08	1.486E-08	1.163E-08	9.382E-09	7.743E-09	6.507E-09
NNE	1.430E-07	7.086E-08	4.432E-08	2.389E-08	1.532E-08	1.080E-08	8.089E-09	6.312E-09	5.078E-09	4.180E-09	3.505E-09
NE	8.233E-08	4.089E-08	2.562E-08	1.384E-08	8.892E-09	6.278E-09	4.705E-09	3.675E-09	2.959E-09	2.437E-09	2.045E-09
ENE	5.546E-08	2.756E-08	1.727E-08	9.337E-09	6.001E-09	4.238E-09	3.177E-09	2.482E-09	1.998E-09	1.647E-09	1.382E-09
E	5.554E-08	2.782E-08	1.753E-08	9.550E-09	6.168E-09	4.373E-09	3.289E-09	2.577E-09	2.080E-09	1.717E-09	1.444E-09
ESE	6.378E-08	3.177E-08	1.994E-08	1.080E-08	6.954E-09	4.917E-09	3.689E-09	2.885E-09	2.324E-09	1.916E-09	1.609E-09
SE	1.025E-07	5.124E-08	3.223E-08	1.752E-08	1.130E-08	8.002E-09	6.012E-09	4.706E-09	3.795E-09	3.131E-09	2.630E-09
SSE	1.450E-07	7.192E-08	4.501E-08	2.430E-08	1.560E-08	1.101E-08	8.252E-09	6.444E-09	5.187E-09	4.272E-09	3.584E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.983E-06	1.570E-06	4.731E-07	2.334E-07	1.419E-07	6.020E-08	1.953E-08	8.595E-09	4.975E-09	3.278E-09
SSW	2.807E-06	6.277E-07	1.843E-07	8.954E-08	5.386E-08	2.246E-08	7.082E-09	3.050E-09	1.742E-09	1.137E-09
SW	1.971E-06	4.435E-07	1.332E-07	6.557E-08	3.980E-08	1.683E-08	5.431E-09	2.381E-09	1.375E-09	9.037E-10
WSW	1.275E-06	2.807E-07	8.219E-08	3.989E-08	2.397E-08	9.987E-09	3.149E-09	1.358E-09	7.767E-10	5.075E-10
W	1.771E-06	3.923E-07	1.155E-07	5.625E-08	3.389E-08	1.418E-08	4.502E-09	1.954E-09	1.122E-09	7.352E-10
WNW	2.667E-06	5.840E-07	1.704E-07	8.261E-08	4.962E-08	2.068E-08	6.533E-09	2.826E-09	1.621E-09	1.062E-09
NW	6.603E-06	1.465E-06	4.371E-07	2.146E-07	1.301E-07	5.500E-08	1.778E-08	7.823E-09	4.530E-09	2.987E-09
NNW	1.195E-05	2.677E-06	8.387E-07	4.229E-07	2.611E-07	1.134E-07	3.824E-08	1.733E-08	1.021E-08	6.809E-09
N	1.456E-05	3.306E-06	1.019E-06	5.088E-07	3.120E-07	1.343E-07	4.456E-08	1.998E-08	1.170E-08	7.771E-09
NNE	8.271E-06	1.892E-06	5.786E-07	2.876E-07	1.758E-07	7.509E-08	2.462E-08	1.092E-08	6.350E-09	4.196E-09
NE	4.769E-06	1.082E-06	3.319E-07	1.653E-07	1.011E-07	4.331E-08	1.426E-08	6.346E-09	3.697E-09	2.446E-09
ENE	3.132E-06	7.237E-07	2.229E-07	1.112E-07	6.809E-08	2.919E-08	9.617E-09	4.284E-09	2.496E-09	1.653E-09
E	3.076E-06	7.056E-07	2.200E-07	1.105E-07	6.805E-08	2.941E-08	9.821E-09	4.418E-09	2.591E-09	1.724E-09
ESE	3.628E-06	8.287E-07	2.556E-07	1.277E-07	7.828E-08	3.363E-08	1.112E-08	4.969E-09	2.901E-09	1.923E-09
SE	5.815E-06	1.317E-06	4.083E-07	2.046E-07	1.257E-07	5.419E-08	1.803E-08	8.086E-09	4.732E-09	3.142E-09
SSE	8.463E-06	1.918E-06	5.862E-07	2.915E-07	1.782E-07	7.620E-08	2.504E-08	1.113E-08	6.482E-09	4.288E-09

VENTS GROUND LEVEL RELEASES - JUL-DEC 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.730E-07	5.849E-08	3.003E-08	1.428E-08	5.129E-09	2.543E-09	1.498E-09	9.806E-10	6.900E-10	5.114E-10	3.941E-10
SSW	7.873E-08	2.662E-08	1.367E-08	6.499E-09	2.334E-09	1.158E-09	6.817E-10	4.463E-10	3.141E-10	2.328E-10	1.794E-10
SW	4.473E-08	1.513E-08	7.767E-09	3.693E-09	1.326E-09	6.578E-10	3.873E-10	2.536E-10	1.784E-10	1.322E-10	1.019E-10
WSW	3.758E-08	1.271E-08	6.524E-09	3.102E-09	1.114E-09	5.525E-10	3.253E-10	2.130E-10	1.499E-10	1.111E-10	8.561E-11
W	5.070E-08	1.714E-08	8.803E-09	4.185E-09	1.503E-09	7.455E-10	4.390E-10	2.874E-10	2.022E-10	1.499E-10	1.155E-10
WNW	9.364E-08	3.167E-08	1.626E-08	7.730E-09	2.777E-09	1.377E-09	8.108E-10	5.309E-10	3.736E-10	2.768E-10	2.133E-10
NW	2.356E-07	7.967E-08	4.091E-08	1.945E-08	6.986E-09	3.464E-09	2.040E-09	1.336E-09	9.398E-10	6.965E-10	5.367E-10
NNW	2.630E-07	8.895E-08	4.567E-08	2.171E-08	7.799E-09	3.868E-09	2.277E-09	1.491E-09	1.049E-09	7.776E-10	5.992E-10
N	4.044E-07	1.367E-07	7.021E-08	3.338E-08	1.199E-08	5.946E-09	3.501E-09	2.293E-09	1.613E-09	1.196E-09	9.213E-10
NNE	1.986E-07	6.716E-08	3.449E-08	1.639E-08	5.889E-09	2.921E-09	1.720E-09	1.126E-09	7.923E-10	5.872E-10	4.525E-10
NE	1.127E-07	3.812E-08	1.957E-08	9.305E-09	3.342E-09	1.658E-09	9.760E-10	6.391E-10	4.497E-10	3.333E-10	2.568E-10
ENE	7.754E-08	2.622E-08	1.346E-08	6.400E-09	2.299E-09	1.140E-09	6.713E-10	4.396E-10	3.093E-10	2.292E-10	1.766E-10
E	7.157E-08	2.420E-08	1.243E-08	5.908E-09	2.122E-09	1.052E-09	6.197E-10	4.058E-10	2.855E-10	2.116E-10	1.631E-10
ESE	9.782E-08	3.308E-08	1.698E-08	8.074E-09	2.900E-09	1.438E-09	8.469E-10	5.546E-10	3.902E-10	2.892E-10	2.229E-10
SE	1.414E-07	4.780E-08	2.454E-08	1.167E-08	4.191E-09	2.079E-09	1.224E-09	8.014E-10	5.639E-10	4.179E-10	3.220E-10
SSE	2.350E-07	7.947E-08	4.080E-08	1.940E-08	6.968E-09	3.456E-09	2.035E-09	1.332E-09	9.375E-10	6.947E-10	5.354E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	3.131E-10	1.391E-10	8.424E-11	4.258E-11	2.577E-11	1.728E-11	1.238E-11	9.297E-12	7.229E-12	5.775E-12	4.713E-12
SSW	1.425E-10	6.330E-11	3.835E-11	1.938E-11	1.173E-11	7.865E-12	5.636E-12	4.232E-12	3.290E-12	2.628E-12	2.145E-12
SW	8.096E-11	3.597E-11	2.179E-11	1.101E-11	6.665E-12	4.469E-12	3.202E-12	2.404E-12	1.870E-12	1.493E-12	1.219E-12
WSW	6.801E-11	3.021E-11	1.830E-11	9.250E-12	5.599E-12	3.754E-12	2.690E-12	2.020E-12	1.570E-12	1.254E-12	1.024E-12
W	9.176E-11	4.076E-11	2.469E-11	1.248E-11	7.554E-12	5.065E-12	3.629E-12	2.725E-12	2.119E-12	1.693E-12	1.381E-12
WNW	1.695E-10	7.529E-11	4.561E-11	2.305E-11	1.395E-11	9.355E-12	6.703E-12	5.033E-12	3.914E-12	3.126E-12	2.552E-12
NW	4.264E-10	1.894E-10	1.147E-10	5.800E-11	3.510E-11	2.354E-11	1.686E-11	1.266E-11	9.846E-12	7.865E-12	6.420E-12
NNW	4.761E-10	2.115E-10	1.281E-10	6.475E-11	3.919E-11	2.628E-11	1.883E-11	1.414E-11	1.099E-11	8.781E-12	7.167E-12
N	7.319E-10	3.251E-10	1.970E-10	9.955E-11	6.025E-11	4.040E-11	2.895E-11	2.174E-11	1.690E-11	1.350E-11	1.102E-11
NNE	3.595E-10	1.597E-10	9.674E-11	4.889E-11	2.959E-11	1.984E-11	1.422E-11	1.068E-11	8.301E-12	6.631E-12	5.412E-12
NE	2.040E-10	9.064E-11	5.490E-11	2.775E-11	1.680E-11	1.126E-11	8.069E-12	6.059E-12	4.711E-12	3.763E-12	3.072E-12
ENE	1.403E-10	6.234E-11	3.776E-11	1.909E-11	1.155E-11	7.746E-12	5.550E-12	4.168E-12	3.241E-12	2.589E-12	2.113E-12
E	1.295E-10	5.755E-11	3.486E-11	1.762E-11	1.066E-11	7.150E-12	5.123E-12	3.847E-12	2.991E-12	2.389E-12	1.950E-12
ESE	1.770E-10	7.865E-11	4.764E-11	2.408E-11	1.457E-11	9.772E-12	7.002E-12	5.258E-12	4.088E-12	3.266E-12	2.665E-12
SE	2.558E-10	1.137E-10	6.885E-11	3.480E-11	2.106E-11	1.412E-11	1.012E-11	7.598E-12	5.908E-12	4.719E-12	3.852E-12
SSE	4.253E-10	1.889E-10	1.145E-10	5.785E-11	3.501E-11	2.348E-11	1.682E-11	1.263E-11	9.821E-12	7.845E-12	6.404E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.935E-08	6.013E-09	1.570E-09	7.050E-10	3.988E-10	1.534E-10	4.437E-11	1.759E-11	9.391E-12	5.812E-12
SSW	1.336E-08	2.737E-09	7.145E-10	3.209E-10	1.815E-10	6.981E-11	2.020E-11	8.004E-12	4.274E-12	2.646E-12
SW	7.592E-09	1.555E-09	4.060E-10	1.823E-10	1.031E-10	3.966E-11	1.147E-11	4.548E-12	2.429E-12	1.503E-12
WSW	6.377E-09	1.306E-09	3.410E-10	1.532E-10	8.664E-11	3.332E-11	9.639E-12	3.820E-12	2.040E-12	1.263E-12
W	8.604E-09	1.762E-09	4.601E-10	2.066E-10	1.169E-10	4.495E-11	1.300E-11	5.154E-12	2.752E-12	1.704E-12
WNW	1.589E-08	3.255E-09	8.498E-10	3.817E-10	2.159E-10	8.303E-11	2.402E-11	9.520E-12	5.084E-12	3.147E-12
NW	3.998E-08	8.190E-09	2.138E-09	9.602E-10	5.432E-10	2.089E-10	6.043E-11	2.395E-11	1.279E-11	7.917E-12
NNW	4.464E-08	9.144E-09	2.387E-09	1.072E-09	6.065E-10	2.332E-10	6.747E-11	2.674E-11	1.428E-11	8.839E-12
N	6.863E-08	1.406E-08	3.670E-09	1.648E-09	9.324E-10	3.586E-10	1.037E-10	4.111E-11	2.195E-11	1.359E-11
NNE	3.371E-08	6.904E-09	1.802E-09	8.095E-10	4.580E-10	1.761E-10	5.095E-11	2.019E-11	1.078E-11	6.674E-12
NE	1.913E-08	3.919E-09	1.023E-09	4.595E-10	2.599E-10	9.995E-11	2.892E-11	1.146E-11	6.120E-12	3.788E-12
ENE	1.316E-08	2.695E-09	7.037E-10	3.160E-10	1.788E-10	6.875E-11	1.989E-11	7.883E-12	4.210E-12	2.606E-12
E	1.215E-08	2.488E-09	6.495E-10	2.917E-10	1.650E-10	6.346E-11	1.836E-11	7.277E-12	3.886E-12	2.405E-12
ESE	1.660E-08	3.400E-09	8.877E-10	3.987E-10	2.255E-10	8.673E-11	2.509E-11	9.945E-12	5.311E-12	3.287E-12
SE	2.399E-08	4.914E-09	1.283E-09	5.761E-10	3.259E-10	1.253E-10	3.626E-11	1.437E-11	7.674E-12	4.750E-12
SSE	3.988E-08	8.169E-09	2.133E-09	9.578E-10	5.418E-10	2.084E-10	6.028E-11	2.389E-11	1.276E-11	7.897E-12

VENTS GROUND LEVEL RELEASES - JUL-DEC 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	6.9E-06	6.9E-06	6.1E-06	2.6E-08
A	Site Boundary	SSW	.82	2.6E-06	2.6E-06	2.3E-06	1.1E-08
A	Site Boundary	SW	.97	1.2E-06	1.2E-06	1.1E-06	3.9E-09
A	Site Boundary	WSW	.93	8.8E-07	8.8E-07	7.7E-07	3.8E-09
A	Site Boundary	W	.91	1.3E-06	1.3E-06	1.1E-06	5.3E-09
A	Site Boundary	WNW	.94	1.8E-06	1.8E-06	1.6E-06	9.1E-09
A	Site Boundary	NW	.81	6.3E-06	6.2E-06	5.6E-06	3.3E-08
A	Site Boundary	NNW	.69	1.6E-05	1.6E-05	1.4E-05	5.3E-08
A	Site Boundary	N	.67	2.0E-05	2.0E-05	1.8E-05	8.4E-08
A	Site Boundary	NNE	.60	1.3E-05	1.3E-05	1.2E-05	5.0E-08
A	Site Boundary	NE	.62	7.2E-06	7.2E-06	6.5E-06	2.7E-08
A	Site Boundary	ENE	.59	5.2E-06	5.1E-06	4.7E-06	2.0E-08
A	Site Boundary	E	.53	6.1E-06	6.1E-06	5.5E-06	2.2E-08
A	Site Boundary	ESE	.54	6.9E-06	6.9E-06	6.3E-06	2.9E-08
A	Site Boundary	SE	.65	8.3E-06	8.2E-06	7.4E-06	3.1E-08
A	Site Boundary	SSE	.81	8.0E-06	8.0E-06	7.1E-06	3.3E-08
A	Nearest Res	SW	1.30	6.3E-07	6.3E-07	5.4E-07	1.9E-09
A	Nearest Res	WSW	2.50	9.8E-08	9.7E-08	7.9E-08	3.3E-10
A	Nearest Res	W	1.00	1.0E-06	1.0E-06	8.9E-07	4.2E-09
A	Nearest Res	WNW	1.70	4.6E-07	4.5E-07	3.8E-07	2.0E-09
A	Nearest Res	NW	.90	4.9E-06	4.9E-06	4.3E-06	2.6E-08
A	Nearest Res	NNW	1.90	1.7E-06	1.7E-06	1.4E-06	4.4E-09
A	Nearest Res	N	3.00	8.6E-07	8.5E-07	6.8E-07	2.3E-09
A	Nearest Res	ENE	1.70	5.8E-07	5.8E-07	4.9E-07	1.7E-09
A	Nearest Res	E	1.80	5.1E-07	5.0E-07	4.2E-07	1.4E-09
A	Nearest Res	ESE	2.30	3.6E-07	3.6E-07	2.9E-07	1.0E-09
A	Nearest Cow	NNW	3.50	5.4E-07	5.3E-07	4.2E-07	1.0E-09
A	Nearest Garde	SW	1.30	6.3E-07	6.3E-07	5.4E-07	1.9E-09
A	Nearest Garde	WSW	1.90	1.7E-07	1.7E-07	1.4E-07	6.3E-10
A	Nearest Garde	WNW	2.40	2.2E-07	2.2E-07	1.8E-07	8.9E-10
A	Nearest Garde	NW	2.90	3.9E-07	3.9E-07	3.1E-07	1.4E-09
A	Nearest Garde	NNW	1.90	1.7E-06	1.7E-06	1.4E-06	4.4E-09
A	Nearest Garde	N	3.00	8.6E-07	8.5E-07	6.8E-07	2.3E-09
A	Nearest Garde	ESE	2.30	3.6E-07	3.6E-07	2.9E-07	1.0E-09

Atmospheric Diffusion Estimates

Ground-Level Releases

January-December 2002

VENTS GROUND LEVEL RELEASES - JAN-DEC 2002
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.969E-05	1.330E-05	7.146E-06	3.585E-06	1.444E-06	7.829E-07	4.968E-07	3.472E-07	2.588E-07	2.020E-07	1.632E-07
SSW	1.758E-05	6.021E-06	3.268E-06	1.642E-06	6.547E-07	3.526E-07	2.225E-07	1.548E-07	1.150E-07	8.945E-08	7.207E-08
SW	1.178E-05	3.964E-06	2.133E-06	1.070E-06	4.279E-07	2.309E-07	1.459E-07	1.016E-07	7.556E-08	5.885E-08	4.745E-08
WSW	8.425E-06	2.822E-06	1.494E-06	7.425E-07	2.978E-07	1.612E-07	1.021E-07	7.129E-08	5.310E-08	4.143E-08	3.346E-08
W	8.353E-06	2.802E-06	1.493E-06	7.441E-07	2.979E-07	1.610E-07	1.020E-07	7.112E-08	5.294E-08	4.128E-08	3.332E-08
WNW	1.429E-05	4.883E-06	2.603E-06	1.294E-06	5.155E-07	2.776E-07	1.753E-07	1.220E-07	9.064E-08	7.056E-08	5.687E-08
NW	3.173E-05	1.046E-05	5.557E-06	2.774E-06	1.118E-06	6.071E-07	3.857E-07	2.698E-07	2.013E-07	1.573E-07	1.272E-07
NNW	6.864E-05	2.156E-05	1.122E-05	5.593E-06	2.321E-06	1.285E-06	8.286E-07	5.863E-07	4.417E-07	3.479E-07	2.834E-07
N	8.762E-05	2.760E-05	1.471E-05	7.420E-06	3.053E-06	1.680E-06	1.078E-06	7.600E-07	5.707E-07	4.483E-07	3.643E-07
NNE	4.700E-05	1.501E-05	8.085E-06	4.094E-06	1.671E-06	9.146E-07	5.844E-07	4.106E-07	3.074E-07	2.409E-07	1.953E-07
NE	3.020E-05	9.633E-06	5.142E-06	2.594E-06	1.061E-06	5.817E-07	3.721E-07	2.617E-07	1.961E-07	1.538E-07	1.248E-07
ENE	2.136E-05	6.702E-06	3.562E-06	1.797E-06	7.399E-07	4.073E-07	2.614E-07	1.843E-07	1.384E-07	1.087E-07	8.836E-08
E	1.868E-05	5.798E-06	3.104E-06	1.576E-06	6.510E-07	3.590E-07	2.307E-07	1.628E-07	1.223E-07	9.615E-08	7.815E-08
ESE	2.363E-05	7.537E-06	4.046E-06	2.047E-06	8.392E-07	4.606E-07	2.949E-07	2.075E-07	1.556E-07	1.221E-07	9.906E-08
SE	3.511E-05	1.128E-05	5.995E-06	3.013E-06	1.232E-06	6.750E-07	4.318E-07	3.036E-07	2.275E-07	1.784E-07	1.447E-07
SSE	5.277E-05	1.703E-05	9.095E-06	4.579E-06	1.866E-06	1.021E-06	6.518E-07	4.578E-07	3.426E-07	2.684E-07	2.176E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.354E-07	7.033E-08	4.591E-08	2.661E-08	1.815E-08	1.351E-08	1.063E-08	8.693E-09	7.304E-09	6.267E-09	5.468E-09
SSW	5.966E-08	3.069E-08	1.990E-08	1.142E-08	7.736E-09	5.730E-09	4.489E-09	3.655E-09	3.061E-09	2.619E-09	2.279E-09
SW	3.931E-08	2.028E-08	1.318E-08	7.593E-09	5.160E-09	3.831E-09	3.008E-09	2.454E-09	2.059E-09	1.764E-09	1.537E-09
WSW	2.776E-08	1.440E-08	9.402E-09	5.453E-09	3.725E-09	2.777E-09	2.188E-09	1.790E-09	1.506E-09	1.293E-09	1.129E-09
W	2.764E-08	1.432E-08	9.340E-09	5.410E-09	3.693E-09	2.752E-09	2.167E-09	1.773E-09	1.490E-09	1.280E-09	1.117E-09
WNW	4.711E-08	2.430E-08	1.580E-08	9.105E-09	6.191E-09	4.600E-09	3.613E-09	2.949E-09	2.475E-09	2.122E-09	1.849E-09
NW	1.057E-07	5.513E-08	3.612E-08	2.104E-08	1.441E-08	1.077E-08	8.496E-09	6.961E-09	5.861E-09	5.038E-09	4.403E-09
NNW	2.369E-07	1.263E-07	8.403E-08	4.998E-08	3.470E-08	2.620E-08	2.085E-08	1.720E-08	1.457E-08	1.259E-08	1.105E-08
N	3.038E-07	1.608E-07	1.064E-07	6.278E-08	4.336E-08	3.260E-08	2.586E-08	2.127E-08	1.797E-08	1.550E-08	1.358E-08
NNE	1.626E-07	8.538E-08	5.618E-08	3.292E-08	2.263E-08	1.696E-08	1.341E-08	1.100E-08	9.277E-09	7.984E-09	6.983E-09
NE	1.039E-07	5.467E-08	3.602E-08	2.115E-08	1.456E-08	1.092E-08	8.640E-09	7.095E-09	5.986E-09	5.155E-09	4.511E-09
ENE	7.369E-08	3.897E-08	2.577E-08	1.521E-08	1.051E-08	7.903E-09	6.269E-09	5.158E-09	4.359E-09	3.759E-09	3.294E-09
E	6.521E-08	3.453E-08	2.286E-08	1.350E-08	9.325E-09	7.012E-09	5.562E-09	4.576E-09	3.867E-09	3.334E-09	2.921E-09
ESE	8.252E-08	4.347E-08	2.866E-08	1.683E-08	1.159E-08	8.689E-09	6.877E-09	5.647E-09	4.764E-09	4.102E-09	3.589E-09
SE	1.205E-07	6.339E-08	4.176E-08	2.452E-08	1.688E-08	1.266E-08	1.002E-08	8.230E-09	6.944E-09	5.980E-09	5.234E-09
SSE	1.811E-07	9.504E-08	6.251E-08	3.661E-08	2.516E-08	1.884E-08	1.490E-08	1.222E-08	1.031E-08	8.870E-09	7.758E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.932E-06	1.626E-06	5.133E-07	2.624E-07	1.644E-07	7.395E-08	2.714E-08	1.360E-08	8.719E-09	6.278E-09
SSW	3.157E-06	7.399E-07	2.301E-07	1.166E-07	7.262E-08	3.233E-08	1.167E-08	5.768E-09	3.667E-09	2.624E-09
SW	2.068E-06	4.831E-07	1.509E-07	7.665E-08	4.781E-08	2.135E-08	7.753E-09	3.856E-09	2.462E-09	1.767E-09
WSW	1.455E-06	3.359E-07	1.055E-07	5.385E-08	3.371E-08	1.515E-08	5.563E-09	2.794E-09	1.796E-09	1.295E-09
W	1.451E-06	3.363E-07	1.054E-07	5.369E-08	3.357E-08	1.507E-08	5.520E-09	2.769E-09	1.778E-09	1.282E-09
WNW	2.528E-06	5.828E-07	1.813E-07	9.195E-08	5.731E-08	2.559E-08	9.297E-09	4.629E-09	2.958E-09	2.126E-09
NW	5.411E-06	1.259E-06	3.984E-07	2.041E-07	1.281E-07	5.791E-08	2.144E-08	1.083E-08	6.981E-09	5.047E-09
NNW	1.102E-05	2.588E-06	8.534E-07	4.473E-07	2.853E-07	1.321E-07	5.076E-08	2.632E-08	1.724E-08	1.260E-08
N	1.433E-05	3.413E-06	1.111E-06	5.782E-07	3.668E-07	1.684E-07	6.383E-08	3.277E-08	2.133E-08	1.552E-08
NNE	7.851E-06	1.873E-06	6.029E-07	3.115E-07	1.967E-07	8.955E-08	3.352E-08	1.705E-08	1.103E-08	7.996E-09
NE	5.007E-06	1.189E-06	3.838E-07	1.987E-07	1.256E-07	5.732E-08	2.152E-08	1.098E-08	7.114E-09	5.163E-09
ENE	3.475E-06	8.270E-07	2.695E-07	1.402E-07	8.897E-08	4.082E-08	1.547E-08	7.944E-09	5.171E-09	3.764E-09
E	3.024E-06	7.269E-07	2.377E-07	1.239E-07	7.869E-08	3.616E-08	1.372E-08	7.049E-09	4.588E-09	3.339E-09
ESE	3.933E-06	9.394E-07	3.041E-07	1.577E-07	9.975E-08	4.556E-08	1.713E-08	8.737E-09	5.662E-09	4.108E-09
SE	5.845E-06	1.380E-06	4.454E-07	2.305E-07	1.457E-07	6.647E-08	2.496E-08	1.273E-08	8.251E-09	5.989E-09
SSE	8.850E-06	2.093E-06	6.726E-07	3.473E-07	2.191E-07	9.971E-08	3.728E-08	1.895E-08	1.226E-08	8.884E-09

VENTS GROUND LEVEL RELEASES - JAN-DEC 2002
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.965E-05	1.328E-05	7.126E-06	3.572E-06	1.435E-06	7.769E-07	4.920E-07	3.431E-07	2.552E-07	1.988E-07	1.603E-07
SSW	1.756E-05	6.010E-06	3.258E-06	1.636E-06	6.508E-07	3.498E-07	2.203E-07	1.530E-07	1.134E-07	8.801E-08	7.076E-08
SW	1.177E-05	3.956E-06	2.127E-06	1.066E-06	4.253E-07	2.290E-07	1.445E-07	1.004E-07	7.448E-08	5.788E-08	4.657E-08
WSW	8.416E-06	2.816E-06	1.489E-06	7.394E-07	2.959E-07	1.598E-07	1.010E-07	7.036E-08	5.229E-08	4.070E-08	3.280E-08
W	8.345E-06	2.797E-06	1.489E-06	7.413E-07	2.962E-07	1.598E-07	1.010E-07	7.027E-08	5.220E-08	4.062E-08	3.272E-08
WNW	1.428E-05	4.874E-06	2.596E-06	1.290E-06	5.128E-07	2.757E-07	1.737E-07	1.207E-07	8.949E-08	6.953E-08	5.594E-08
NW	3.170E-05	1.045E-05	5.543E-06	2.764E-06	1.112E-06	6.027E-07	3.822E-07	2.668E-07	1.987E-07	1.549E-07	1.251E-07
NNW	6.857E-05	2.152E-05	1.118E-05	5.570E-06	2.306E-06	1.274E-06	8.198E-07	5.789E-07	4.351E-07	3.420E-07	2.779E-07
N	8.754E-05	2.755E-05	1.466E-05	7.392E-06	3.035E-06	1.667E-06	1.068E-06	7.511E-07	5.629E-07	4.413E-07	3.578E-07
NNE	4.696E-05	1.499E-05	8.062E-06	4.078E-06	1.661E-06	9.072E-07	5.785E-07	4.056E-07	3.031E-07	2.370E-07	1.917E-07
NE	3.016E-05	9.613E-06	5.126E-06	2.583E-06	1.054E-06	5.767E-07	3.682E-07	2.583E-07	1.932E-07	1.511E-07	1.223E-07
ENE	2.134E-05	6.688E-06	3.551E-06	1.790E-06	7.353E-07	4.039E-07	2.587E-07	1.820E-07	1.364E-07	1.069E-07	8.666E-08
E	1.866E-05	5.786E-06	3.095E-06	1.570E-06	6.469E-07	3.560E-07	2.283E-07	1.607E-07	1.205E-07	9.453E-08	7.668E-08
ESE	2.360E-05	7.522E-06	4.034E-06	2.039E-06	8.341E-07	4.569E-07	2.919E-07	2.050E-07	1.534E-07	1.201E-07	9.722E-08
SE	3.507E-05	1.126E-05	5.978E-06	3.002E-06	1.225E-06	6.697E-07	4.275E-07	2.999E-07	2.243E-07	1.755E-07	1.420E-07
SSE	5.272E-05	1.699E-05	9.069E-06	4.561E-06	1.855E-06	1.013E-06	6.454E-07	4.523E-07	3.378E-07	2.641E-07	2.136E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.328E-07	6.823E-08	4.408E-08	2.502E-08	1.671E-08	1.218E-08	9.383E-09	7.508E-09	6.176E-09	5.189E-09	4.432E-09
SSW	5.846E-08	2.975E-08	1.909E-08	1.072E-08	7.110E-09	5.154E-09	3.952E-09	3.149E-09	2.581E-09	2.161E-09	1.840E-09
SW	3.850E-08	1.965E-08	1.263E-08	7.120E-09	4.733E-09	3.438E-09	2.640E-09	2.107E-09	1.729E-09	1.449E-09	1.235E-09
WSW	2.715E-08	1.393E-08	8.987E-09	5.093E-09	3.399E-09	2.476E-09	1.906E-09	1.524E-09	1.252E-09	1.050E-09	8.961E-10
W	2.708E-08	1.389E-08	8.961E-09	5.081E-09	3.395E-09	2.476E-09	1.908E-09	1.527E-09	1.256E-09	1.056E-09	9.016E-10
WNW	4.625E-08	2.363E-08	1.521E-08	8.596E-09	5.730E-09	4.174E-09	3.214E-09	2.571E-09	2.115E-09	1.777E-09	1.519E-09
NW	1.037E-07	5.356E-08	3.474E-08	1.984E-08	1.332E-08	9.751E-09	7.540E-09	6.054E-09	4.995E-09	4.208E-09	3.603E-09
NNW	2.318E-07	1.222E-07	8.040E-08	4.675E-08	3.173E-08	2.341E-08	1.821E-08	1.469E-08	1.216E-08	1.027E-08	8.816E-09
N	2.979E-07	1.560E-07	1.021E-07	5.906E-08	3.996E-08	2.943E-08	2.286E-08	1.842E-08	1.525E-08	1.288E-08	1.106E-08
NNE	1.593E-07	8.276E-08	5.388E-08	3.091E-08	2.080E-08	1.526E-08	1.181E-08	9.490E-09	7.833E-09	6.601E-09	5.653E-09
NE	1.017E-07	5.289E-08	3.446E-08	1.978E-08	1.331E-08	9.755E-09	7.547E-09	6.058E-09	4.996E-09	4.206E-09	3.598E-09
ENE	7.212E-08	3.772E-08	2.467E-08	1.424E-08	9.618E-09	7.074E-09	5.488E-09	4.416E-09	3.650E-09	3.078E-09	2.638E-09
E	6.383E-08	3.344E-08	2.189E-08	1.265E-08	8.549E-09	6.290E-09	4.881E-09	3.929E-09	3.249E-09	2.741E-09	2.350E-09
ESE	8.082E-08	4.211E-08	2.746E-08	1.578E-08	1.063E-08	7.797E-09	6.036E-09	4.848E-09	4.001E-09	3.370E-09	2.885E-09
SE	1.180E-07	6.142E-08	4.003E-08	2.299E-08	1.548E-08	1.135E-08	8.788E-09	7.059E-09	5.824E-09	4.906E-09	4.199E-09
SSE	1.774E-07	9.213E-08	5.995E-08	3.436E-08	2.310E-08	1.693E-08	1.309E-08	1.051E-08	8.669E-09	7.299E-09	6.246E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.914E-06	1.618E-06	5.084E-07	2.588E-07	1.615E-07	7.184E-08	2.556E-08	1.227E-08	7.537E-09	5.201E-09
SSW	3.149E-06	7.360E-07	2.279E-07	1.150E-07	7.132E-08	3.139E-08	1.098E-08	5.195E-09	3.162E-09	2.167E-09
SW	2.062E-06	4.805E-07	1.494E-07	7.556E-08	4.694E-08	2.072E-08	7.284E-09	3.464E-09	2.115E-09	1.452E-09
WSW	1.451E-06	3.340E-07	1.044E-07	5.304E-08	3.305E-08	1.467E-08	5.205E-09	2.494E-09	1.529E-09	1.053E-09
W	1.447E-06	3.345E-07	1.044E-07	5.295E-08	3.297E-08	1.463E-08	5.194E-09	2.494E-09	1.533E-09	1.058E-09
WNW	2.522E-06	5.800E-07	1.797E-07	9.080E-08	5.638E-08	2.491E-08	8.792E-09	4.205E-09	2.581E-09	1.782E-09
NW	5.397E-06	1.253E-06	3.948E-07	2.015E-07	1.260E-07	5.634E-08	2.025E-08	9.818E-09	6.075E-09	4.217E-09
NNW	1.099E-05	2.573E-06	8.446E-07	4.407E-07	2.798E-07	1.280E-07	4.755E-08	2.355E-08	1.473E-08	1.029E-08
N	1.430E-05	3.395E-06	1.101E-06	5.704E-07	3.604E-07	1.636E-07	6.014E-08	2.961E-08	1.848E-08	1.291E-08
NNE	7.830E-06	1.863E-06	5.970E-07	3.072E-07	1.931E-07	8.693E-08	3.152E-08	1.536E-08	9.522E-09	6.615E-09
NE	4.993E-06	1.182E-06	3.799E-07	1.958E-07	1.232E-07	5.554E-08	2.016E-08	9.819E-09	6.079E-09	4.215E-09
ENE	3.465E-06	8.223E-07	2.667E-07	1.382E-07	8.727E-08	3.956E-08	1.450E-08	7.118E-09	4.430E-09	3.085E-09
E	3.015E-06	7.228E-07	2.353E-07	1.221E-07	7.721E-08	3.506E-08	1.288E-08	6.329E-09	3.942E-09	2.747E-09
ESE	3.922E-06	9.342E-07	3.011E-07	1.554E-07	9.791E-08	4.420E-08	1.609E-08	7.847E-09	4.865E-09	3.378E-09
SE	5.829E-06	1.373E-06	4.411E-07	2.273E-07	1.431E-07	6.450E-08	2.344E-08	1.143E-08	7.083E-09	4.916E-09
SSE	8.827E-06	2.082E-06	6.661E-07	3.425E-07	2.152E-07	9.678E-08	3.504E-08	1.704E-08	1.055E-08	7.315E-09

VENTS GROUND LEVEL RELEASES - JAN-DEC 2002
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.755E-05	1.214E-05	6.363E-06	3.135E-06	1.224E-06	6.469E-07	4.014E-07	2.748E-07	2.011E-07	1.544E-07	1.228E-07
SSW	1.663E-05	5.495E-06	2.910E-06	1.436E-06	5.551E-07	2.913E-07	1.798E-07	1.225E-07	8.935E-08	6.835E-08	5.421E-08
SW	1.115E-05	3.618E-06	1.899E-06	9.359E-07	3.628E-07	1.907E-07	1.179E-07	8.046E-08	5.872E-08	4.496E-08	3.569E-08
WSW	7.971E-06	2.576E-06	1.330E-06	6.492E-07	2.525E-07	1.331E-07	8.248E-08	5.642E-08	4.126E-08	3.164E-08	2.515E-08
W	7.903E-06	2.558E-06	1.329E-06	6.507E-07	2.526E-07	1.331E-07	8.236E-08	5.630E-08	4.114E-08	3.154E-08	2.507E-08
WNW	1.352E-05	4.457E-06	2.318E-06	1.132E-06	4.371E-07	2.294E-07	1.416E-07	9.661E-08	7.047E-08	5.394E-08	4.280E-08
NW	3.003E-05	9.551E-06	4.949E-06	2.426E-06	9.480E-07	5.016E-07	3.116E-07	2.136E-07	1.565E-07	1.202E-07	9.571E-08
NNW	6.494E-05	1.968E-05	9.989E-06	4.890E-06	1.967E-06	1.062E-06	6.691E-07	4.641E-07	3.432E-07	2.658E-07	2.131E-07
N	8.290E-05	2.519E-05	1.309E-05	6.488E-06	2.588E-06	1.388E-06	8.708E-07	6.017E-07	4.436E-07	3.426E-07	2.740E-07
NNE	4.447E-05	1.370E-05	7.199E-06	3.580E-06	1.417E-06	7.556E-07	4.720E-07	3.250E-07	2.389E-07	1.841E-07	1.469E-07
NE	2.857E-05	8.791E-06	4.578E-06	2.268E-06	8.995E-07	4.805E-07	3.005E-07	2.071E-07	1.524E-07	1.175E-07	9.380E-08
ENE	2.021E-05	6.117E-06	3.171E-06	1.571E-06	6.273E-07	3.365E-07	2.111E-07	1.459E-07	1.076E-07	8.308E-08	6.644E-08
E	1.767E-05	5.291E-06	2.764E-06	1.378E-06	5.519E-07	2.966E-07	1.863E-07	1.288E-07	9.505E-08	7.345E-08	5.877E-08
ESE	2.236E-05	6.879E-06	3.602E-06	1.790E-06	7.115E-07	3.805E-07	2.382E-07	1.643E-07	1.209E-07	9.326E-08	7.450E-08
SE	3.322E-05	1.030E-05	5.338E-06	2.635E-06	1.044E-06	5.577E-07	3.488E-07	2.403E-07	1.768E-07	1.363E-07	1.088E-07
SSE	4.993E-05	1.554E-05	8.098E-06	4.004E-06	1.582E-06	8.433E-07	5.265E-07	3.624E-07	2.663E-07	2.051E-07	1.637E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.004E-07	4.916E-08	3.049E-08	1.626E-08	1.035E-08	7.260E-09	5.413E-09	4.209E-09	3.376E-09	2.773E-09	2.320E-09
SSW	4.422E-08	2.144E-08	1.321E-08	6.977E-09	4.411E-09	3.076E-09	2.283E-09	1.769E-09	1.414E-09	1.158E-09	9.660E-10
SW	2.913E-08	1.417E-08	8.749E-09	4.636E-09	2.940E-09	2.056E-09	1.529E-09	1.186E-09	9.498E-10	7.788E-10	6.506E-10
WSW	2.056E-08	1.006E-08	6.237E-09	3.326E-09	2.119E-09	1.487E-09	1.110E-09	8.634E-10	6.928E-10	5.692E-10	4.764E-10
W	2.048E-08	1.001E-08	6.202E-09	3.305E-09	2.106E-09	1.478E-09	1.102E-09	8.578E-10	6.884E-10	5.656E-10	4.734E-10
WNW	3.494E-08	1.700E-08	1.050E-08	5.570E-09	3.537E-09	2.476E-09	1.843E-09	1.432E-09	1.148E-09	9.418E-10	7.876E-10
NW	7.835E-08	3.855E-08	2.400E-08	1.287E-08	8.230E-09	5.792E-09	4.331E-09	3.377E-09	2.715E-09	2.235E-09	1.873E-09
NNW	1.755E-07	8.823E-08	5.575E-08	3.049E-08	1.976E-08	1.404E-08	1.058E-08	8.302E-09	6.710E-09	5.547E-09	4.668E-09
N	2.252E-07	1.124E-07	7.064E-08	3.837E-08	2.474E-08	1.752E-08	1.317E-08	1.031E-08	8.316E-09	6.864E-09	5.769E-09
NNE	1.205E-07	5.966E-08	3.730E-08	2.011E-08	1.290E-08	9.105E-09	6.821E-09	5.326E-09	4.287E-09	3.531E-09	2.962E-09
NE	7.697E-08	3.818E-08	2.390E-08	1.290E-08	8.288E-09	5.851E-09	4.385E-09	3.425E-09	2.757E-09	2.272E-09	1.906E-09
ENE	5.460E-08	2.722E-08	1.710E-08	9.282E-09	5.984E-09	4.237E-09	3.183E-09	2.491E-09	2.009E-09	1.658E-09	1.393E-09
E	4.831E-08	2.413E-08	1.517E-08	8.239E-09	5.313E-09	3.762E-09	2.827E-09	2.212E-09	1.784E-09	1.472E-09	1.237E-09
ESE	6.115E-08	3.037E-08	1.902E-08	1.028E-08	6.603E-09	4.662E-09	3.495E-09	2.730E-09	2.198E-09	1.811E-09	1.519E-09
SE	8.930E-08	4.429E-08	2.772E-08	1.497E-08	9.618E-09	6.791E-09	5.091E-09	3.977E-09	3.202E-09	2.639E-09	2.214E-09
SSE	1.342E-07	6.641E-08	4.150E-08	2.236E-08	1.434E-08	1.011E-08	7.574E-09	5.912E-09	4.757E-09	3.917E-09	3.286E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.213E-06	1.392E-06	4.162E-07	2.044E-07	1.238E-07	5.225E-08	1.680E-08	7.346E-09	4.236E-09	2.784E-09
SSW	2.829E-06	6.336E-07	1.866E-07	9.084E-08	5.470E-08	2.285E-08	7.222E-09	3.115E-09	1.781E-09	1.163E-09
SW	1.853E-06	4.137E-07	1.223E-07	5.969E-08	3.601E-08	1.509E-08	4.796E-09	2.081E-09	1.194E-09	7.820E-10
WSW	1.304E-06	2.876E-07	8.556E-08	4.193E-08	2.538E-08	1.069E-08	3.437E-09	1.505E-09	8.688E-10	5.714E-10
W	1.301E-06	2.879E-07	8.545E-08	4.182E-08	2.529E-08	1.064E-08	3.416E-09	1.495E-09	8.632E-10	5.678E-10
WNW	2.266E-06	4.992E-07	1.470E-07	7.164E-08	4.319E-08	1.810E-08	5.762E-09	2.506E-09	1.441E-09	9.457E-10
NW	4.850E-06	1.078E-06	3.231E-07	1.590E-07	9.654E-08	4.093E-08	1.328E-08	5.858E-09	3.398E-09	2.243E-09
NNW	9.876E-06	2.214E-06	6.918E-07	3.482E-07	2.148E-07	9.319E-08	3.134E-08	1.418E-08	8.346E-09	5.566E-09
N	1.285E-05	2.921E-06	9.011E-07	4.503E-07	2.763E-07	1.189E-07	3.948E-08	1.771E-08	1.037E-08	6.889E-09
NNE	7.036E-06	1.604E-06	4.888E-07	2.426E-07	1.481E-07	6.324E-08	2.073E-08	9.205E-09	5.357E-09	3.544E-09
NE	4.488E-06	1.017E-06	3.112E-07	1.547E-07	9.458E-08	4.045E-08	1.330E-08	5.914E-09	3.445E-09	2.280E-09
ENE	3.115E-06	7.078E-07	2.185E-07	1.092E-07	6.698E-08	2.881E-08	9.554E-09	4.282E-09	2.505E-09	1.664E-09
E	2.710E-06	6.221E-07	1.927E-07	9.647E-08	5.925E-08	2.552E-08	8.479E-09	3.802E-09	2.225E-09	1.477E-09
ESE	3.525E-06	8.041E-07	2.466E-07	1.228E-07	7.512E-08	3.217E-08	1.059E-08	4.713E-09	2.746E-09	1.818E-09
SE	5.238E-06	1.181E-06	3.611E-07	1.795E-07	1.097E-07	4.693E-08	1.543E-08	6.865E-09	4.000E-09	2.649E-09
SSE	7.932E-06	1.792E-06	5.453E-07	2.704E-07	1.650E-07	7.041E-08	2.305E-08	1.023E-08	5.947E-09	3.932E-09

VENTS GROUND LEVEL RELEASES - JAN-DEC 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.805E-07	6.103E-08	3.134E-08	1.490E-08	5.351E-09	2.654E-09	1.563E-09	1.023E-09	7.200E-10	5.336E-10	4.112E-10
SSW	8.144E-08	2.754E-08	1.414E-08	6.722E-09	2.415E-09	1.197E-09	7.051E-10	4.617E-10	3.249E-10	2.408E-10	1.855E-10
SW	5.285E-08	1.787E-08	9.176E-09	4.362E-09	1.567E-09	7.771E-10	4.576E-10	2.996E-10	2.108E-10	1.562E-10	1.204E-10
WSW	3.494E-08	1.182E-08	6.067E-09	2.884E-09	1.036E-09	5.138E-10	3.025E-10	1.981E-10	1.394E-10	1.033E-10	7.961E-11
W	3.870E-08	1.309E-08	6.719E-09	3.194E-09	1.147E-09	5.690E-10	3.350E-10	2.194E-10	1.544E-10	1.144E-10	8.816E-11
WNW	7.653E-08	2.588E-08	1.329E-08	6.317E-09	2.269E-09	1.125E-09	6.626E-10	4.338E-10	3.053E-10	2.262E-10	1.743E-10
NW	1.730E-07	5.849E-08	3.003E-08	1.428E-08	5.129E-09	2.544E-09	1.498E-09	9.807E-10	6.900E-10	5.114E-10	3.941E-10
NNW	2.590E-07	8.760E-08	4.498E-08	2.138E-08	7.680E-09	3.809E-09	2.243E-09	1.469E-09	1.033E-09	7.658E-10	5.901E-10
N	4.040E-07	1.366E-07	7.015E-08	3.335E-08	1.198E-08	5.941E-09	3.498E-09	2.290E-09	1.612E-09	1.194E-09	9.204E-10
NNE	1.969E-07	6.660E-08	3.420E-08	1.626E-08	5.840E-09	2.896E-09	1.705E-09	1.117E-09	7.857E-10	5.822E-10	4.487E-10
NE	1.138E-07	3.848E-08	1.976E-08	9.392E-09	3.374E-09	1.673E-09	9.851E-10	6.450E-10	4.539E-10	3.364E-10	2.592E-10
ENE	8.144E-08	2.754E-08	1.414E-08	6.722E-09	2.415E-09	1.197E-09	7.051E-10	4.617E-10	3.249E-10	2.408E-10	1.855E-10
E	6.902E-08	2.334E-08	1.198E-08	5.697E-09	2.046E-09	1.015E-09	5.976E-10	3.913E-10	2.753E-10	2.040E-10	1.572E-10
ESE	1.080E-07	3.652E-08	1.875E-08	8.915E-09	3.202E-09	1.588E-09	9.351E-10	6.123E-10	4.308E-10	3.193E-10	2.461E-10
SE	1.750E-07	5.918E-08	3.038E-08	1.445E-08	5.189E-09	2.573E-09	1.515E-09	9.921E-10	6.981E-10	5.174E-10	3.987E-10
SSE	2.709E-07	9.160E-08	4.703E-08	2.236E-08	8.032E-09	3.983E-09	2.345E-09	1.536E-09	1.081E-09	8.008E-10	6.171E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	3.267E-10	1.451E-10	8.791E-11	4.443E-11	2.689E-11	1.803E-11	1.292E-11	9.701E-12	7.543E-12	6.025E-12	4.918E-12
SSW	1.474E-10	6.548E-11	3.966E-11	2.005E-11	1.213E-11	8.135E-12	5.829E-12	4.377E-12	3.403E-12	2.719E-12	2.219E-12
SW	9.565E-11	4.249E-11	2.574E-11	1.301E-11	7.874E-12	5.279E-12	3.783E-12	2.841E-12	2.209E-12	1.764E-12	1.440E-12
WSW	6.324E-11	2.809E-11	1.702E-11	8.602E-12	5.206E-12	3.491E-12	2.501E-12	1.878E-12	1.460E-12	1.167E-12	9.522E-13
W	7.004E-11	3.111E-11	1.885E-11	9.526E-12	5.766E-12	3.866E-12	2.770E-12	2.080E-12	1.617E-12	1.292E-12	1.054E-12
WNW	1.385E-10	6.153E-11	3.727E-11	1.884E-11	1.140E-11	7.645E-12	5.478E-12	4.113E-12	3.198E-12	2.555E-12	2.085E-12
NW	3.131E-10	1.391E-10	8.425E-11	4.258E-11	2.577E-11	1.728E-11	1.238E-11	9.298E-12	7.229E-12	5.775E-12	4.714E-12
NNW	4.688E-10	2.083E-10	1.262E-10	6.377E-11	3.860E-11	2.588E-11	1.854E-11	1.392E-11	1.083E-11	8.648E-12	7.059E-12
N	7.312E-10	3.248E-10	1.968E-10	9.946E-11	6.020E-11	4.036E-11	2.892E-11	2.172E-11	1.688E-11	1.349E-11	1.101E-11
NNE	3.565E-10	1.584E-10	9.592E-11	4.848E-11	2.934E-11	1.968E-11	1.410E-11	1.059E-11	8.231E-12	6.575E-12	5.367E-12
NE	2.059E-10	9.148E-11	5.542E-11	2.801E-11	1.695E-11	1.137E-11	8.145E-12	6.116E-12	4.755E-12	3.798E-12	3.100E-12
ENE	1.474E-10	6.548E-11	3.966E-11	2.005E-11	1.213E-11	8.135E-12	5.829E-12	4.377E-12	3.403E-12	2.719E-12	2.219E-12
E	1.249E-10	5.549E-11	3.361E-11	1.699E-11	1.028E-11	6.895E-12	4.941E-12	3.710E-12	2.884E-12	2.304E-12	1.881E-12
ESE	1.955E-10	8.684E-11	5.260E-11	2.659E-11	1.609E-11	1.079E-11	7.731E-12	5.805E-12	4.514E-12	3.606E-12	2.943E-12
SE	3.167E-10	1.407E-10	8.523E-11	4.308E-11	2.607E-11	1.748E-11	1.253E-11	9.406E-12	7.314E-12	5.842E-12	4.769E-12
SSE	4.903E-10	2.178E-10	1.319E-10	6.668E-11	4.036E-11	2.706E-11	1.939E-11	1.456E-11	1.132E-11	9.043E-12	7.381E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.063E-08	6.274E-09	1.638E-09	7.356E-10	4.161E-10	1.600E-10	4.630E-11	1.835E-11	9.799E-12	6.065E-12
SSW	1.382E-08	2.831E-09	7.390E-10	3.319E-10	1.878E-10	7.221E-11	2.089E-11	8.279E-12	4.421E-12	2.737E-12
SW	8.969E-09	1.837E-09	4.796E-10	2.154E-10	1.218E-10	4.686E-11	1.356E-11	5.373E-12	2.869E-12	1.776E-12
WSW	5.930E-09	1.215E-09	3.171E-10	1.424E-10	8.057E-11	3.098E-11	8.963E-12	3.552E-12	1.897E-12	1.174E-12
W	6.567E-09	1.345E-09	3.512E-10	1.577E-10	8.922E-11	3.431E-11	9.926E-12	3.934E-12	2.101E-12	1.300E-12
WNW	1.299E-08	2.660E-09	6.945E-10	3.119E-10	1.764E-10	6.785E-11	1.963E-11	7.780E-12	4.155E-12	2.572E-12
NW	2.936E-08	6.013E-09	1.570E-09	7.050E-10	3.988E-10	1.534E-10	4.437E-11	1.759E-11	9.391E-12	5.813E-12
NNW	4.396E-08	9.005E-09	2.351E-09	1.056E-09	5.973E-10	2.297E-10	6.645E-11	2.634E-11	1.406E-11	8.705E-12
N	6.856E-08	1.404E-08	3.666E-09	1.647E-09	9.315E-10	3.582E-10	1.036E-10	4.107E-11	2.193E-11	1.358E-11
NNE	3.342E-08	6.846E-09	1.787E-09	8.027E-10	4.541E-10	1.746E-10	5.052E-11	2.002E-11	1.069E-11	6.618E-12
NE	1.931E-08	3.955E-09	1.033E-09	4.637E-10	2.623E-10	1.009E-10	2.919E-11	1.157E-11	6.177E-12	3.823E-12
ENE	1.382E-08	2.831E-09	7.390E-10	3.319E-10	1.878E-10	7.221E-11	2.089E-11	8.279E-12	4.421E-12	2.737E-12
E	1.171E-08	2.399E-09	6.263E-10	2.813E-10	1.591E-10	6.120E-11	1.770E-11	7.017E-12	3.747E-12	2.319E-12
ESE	1.833E-08	3.754E-09	9.801E-10	4.402E-10	2.490E-10	9.576E-11	2.770E-11	1.098E-11	5.864E-12	3.629E-12
SE	2.970E-08	6.083E-09	1.588E-09	7.133E-10	4.035E-10	1.552E-10	4.489E-11	1.779E-11	9.501E-12	5.881E-12
SSE	4.597E-08	9.416E-09	2.458E-09	1.104E-09	6.246E-10	2.402E-10	6.948E-11	2.754E-11	1.471E-11	9.102E-12

VENTS GROUND LEVEL RELEASES - JAN-DEC 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	6.1E-06	6.1E-06	5.5E-06	2.7E-08
A	Site Boundary	SSW	.82	2.6E-06	2.6E-06	2.3E-06	1.1E-08
A	Site Boundary	SW	.97	1.1E-06	1.1E-06	1.0E-06	4.7E-09
A	Site Boundary	WSW	.93	9.0E-07	8.9E-07	7.9E-07	3.5E-09
A	Site Boundary	'W	.91	9.3E-07	9.2E-07	8.2E-07	4.0E-09
A	Site Boundary	WNW	.94	1.5E-06	1.5E-06	1.3E-06	7.5E-09
A	Site Boundary	NW	.81	4.6E-06	4.6E-06	4.1E-06	2.5E-08
A	Site Boundary	NNW	.69	1.3E-05	1.3E-05	1.2E-05	5.2E-08
A	Site Boundary	N	.67	1.7E-05	1.7E-05	1.5E-05	8.4E-08
A	Site Boundary	NNE	.60	1.1E-05	1.1E-05	1.0E-05	4.9E-08
A	Site Boundary	NE	.62	6.8E-06	6.8E-06	6.1E-06	2.7E-08
A	Site Boundary	ENE	.59	5.2E-06	5.2E-06	4.7E-06	2.1E-08
A	Site Boundary	E	.53	5.3E-06	5.3E-06	4.9E-06	2.2E-08
A	Site Boundary	ESE	.54	6.7E-06	6.7E-06	6.1E-06	3.2E-08
A	Site Boundary	SE	.65	7.5E-06	7.4E-06	6.7E-06	3.9E-08
A	Site Boundary	SSE	.81	7.5E-06	7.5E-06	6.7E-06	3.8E-08
A	Nearest Res	SW	1.30	5.9E-07	5.8E-07	5.0E-07	2.2E-09
A	Nearest Res	WSW	2.50	1.0E-07	1.0E-07	8.2E-08	3.0E-10
A	Nearest Res	W	1.00	7.4E-07	7.4E-07	6.5E-07	3.2E-09
A	Nearest Res	WNW	1.70	3.9E-07	3.9E-07	3.3E-07	1.7E-09
A	Nearest Res	NW	.90	3.6E-06	3.6E-06	3.1E-06	1.9E-08
A	Nearest Res	NNW	1.90	1.4E-06	1.4E-06	1.2E-06	4.3E-09
A	Nearest Res	N	3.00	7.6E-07	7.5E-07	6.0E-07	2.3E-09
A	Nearest Res	ENE	1.70	5.7E-07	5.7E-07	4.8E-07	1.8E-09
A	Nearest Res	E	1.80	4.5E-07	4.4E-07	3.7E-07	1.3E-09
A	Nearest Res	ESE	2.30	3.5E-07	3.4E-07	2.8E-07	1.1E-09
A	Nearest Cow	NNW	3.50	4.4E-07	4.4E-07	3.4E-07	1.0E-09
A	Nearest Garde	SW	1.30	5.9E-07	5.8E-07	5.0E-07	2.2E-09
A	Nearest Garde	WSW	1.90	1.8E-07	1.8E-07	1.5E-07	5.8E-10
A	Nearest Garde	WNW	2.40	1.9E-07	1.9E-07	1.5E-07	7.3E-10
A	Nearest Garde	NW	2.90	2.9E-07	2.9E-07	2.3E-07	1.1E-09
A	Nearest Garde	NNW	1.90	1.4E-06	1.4E-06	1.2E-06	4.3E-09
A	Nearest Garde	N	3.00	7.6E-07	7.5E-07	6.0E-07	2.3E-09
A	Nearest Garde	ESE	2.30	3.5E-07	3.4E-07	2.8E-07	1.1E-09

Atmospheric Diffusion Estimates

Elevated Releases

January-March 2002

ERP ELEVATED STACK RELEASES - JAN-MAR 2002
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	8.313E-09	1.544E-08	3.456E-08	4.927E-08	5.543E-08	4.867E-08	4.065E-08	3.389E-08	2.857E-08	3.337E-08	3.695E-08
SSW	5.508E-11	3.703E-09	1.575E-08	2.500E-08	2.929E-08	2.600E-08	2.182E-08	2.348E-08	2.340E-08	2.005E-08	1.742E-08
SW	2.507E-11	1.840E-09	2.119E-08	4.791E-08	7.031E-08	4.630E-08	3.278E-08	2.455E-08	1.919E-08	1.550E-08	1.285E-08
WSW	1.500E-16	1.556E-10	7.936E-09	2.598E-08	5.315E-08	3.382E-08	2.340E-08	1.725E-08	1.332E-08	1.066E-08	8.769E-09
W	2.272E-10	1.693E-08	6.508E-08	8.486E-08	7.905E-08	4.875E-08	3.323E-08	2.432E-08	1.872E-08	1.498E-08	1.234E-08
WNW	2.133E-10	1.117E-08	7.394E-08	1.337E-07	1.564E-07	9.272E-08	6.160E-08	4.578E-08	3.574E-08	2.812E-08	2.285E-08
NW	1.224E-09	1.202E-08	3.259E-08	5.165E-08	7.452E-08	4.391E-08	2.918E-08	2.143E-08	1.655E-08	1.304E-08	1.061E-08
NNW	1.522E-09	9.776E-09	2.393E-08	4.562E-08	8.471E-08	8.988E-08	8.509E-08	7.652E-08	6.887E-08	5.441E-08	4.437E-08
N	1.583E-10	1.193E-08	2.675E-08	3.160E-08	3.316E-08	3.079E-08	2.723E-08	2.334E-08	2.017E-08	1.761E-08	1.555E-08
NNE	2.007E-09	1.318E-08	3.491E-08	5.290E-08	6.628E-08	6.286E-08	5.546E-08	4.817E-08	4.193E-08	3.677E-08	3.257E-08
NE	1.003E-10	7.395E-09	2.545E-08	3.902E-08	4.716E-08	4.341E-08	3.752E-08	3.211E-08	2.764E-08	2.404E-08	2.114E-08
ENE	1.173E-10	7.653E-09	1.979E-08	2.668E-08	3.002E-08	2.695E-08	2.295E-08	1.946E-08	1.663E-08	1.439E-08	1.261E-08
E	1.141E-10	7.250E-09	1.571E-08	1.847E-08	1.922E-08	1.723E-08	1.489E-08	1.283E-08	1.115E-08	9.799E-09	8.709E-09
ESE	6.024E-11	4.327E-09	1.517E-08	2.304E-08	2.877E-08	2.758E-08	2.460E-08	2.156E-08	1.890E-08	1.667E-08	1.483E-08
SE	8.760E-11	6.627E-09	4.079E-08	6.914E-08	8.271E-08	7.387E-08	6.228E-08	5.225E-08	4.423E-08	3.792E-08	3.292E-08
SSE	1.956E-08	5.572E-08	8.980E-08	1.024E-07	1.002E-07	8.409E-08	6.870E-08	5.650E-08	4.716E-08	3.999E-08	3.443E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.307E-08	2.278E-08	1.488E-08	8.590E-09	6.092E-09	4.644E-09	3.625E-09	2.943E-09	2.483E-09	2.133E-09	1.852E-09
SSW	1.574E-08	1.182E-08	7.683E-09	4.417E-09	3.196E-09	2.422E-09	1.888E-09	1.532E-09	1.280E-09	1.092E-09	9.482E-10
SW	1.150E-08	7.371E-09	4.736E-09	2.672E-09	1.814E-09	1.339E-09	1.044E-09	8.395E-10	6.957E-10	5.898E-10	5.089E-10
WSW	7.615E-09	4.466E-09	2.972E-09	1.705E-09	1.133E-09	8.270E-10	6.402E-10	5.160E-10	4.283E-10	3.635E-10	3.141E-10
W	1.040E-08	5.664E-09	4.079E-09	2.749E-09	2.126E-09	1.591E-09	1.245E-09	1.013E-09	8.482E-10	7.256E-10	6.314E-10
WNW	1.920E-08	1.043E-08	6.989E-09	4.195E-09	2.861E-09	2.130E-09	1.682E-09	1.373E-09	1.147E-09	9.769E-10	8.463E-10
NW	8.934E-09	4.836E-09	3.220E-09	1.891E-09	1.270E-09	9.345E-10	7.345E-10	5.966E-10	4.974E-10	4.239E-10	3.676E-10
NNW	3.786E-08	2.149E-08	1.399E-08	8.065E-09	5.476E-09	4.063E-09	3.215E-09	2.638E-09	2.242E-09	1.926E-09	1.675E-09
N	1.391E-08	9.142E-09	7.940E-09	6.853E-09	6.077E-09	5.164E-09	4.087E-09	3.342E-09	2.803E-09	2.401E-09	2.092E-09
NNE	3.700E-08	5.783E-08	3.769E-08	2.179E-08	1.483E-08	1.103E-08	8.668E-09	7.079E-09	5.943E-09	5.096E-09	4.443E-09
NE	2.351E-08	3.560E-08	2.315E-08	1.334E-08	9.063E-09	6.730E-09	5.337E-09	4.382E-09	3.696E-09	3.164E-09	2.755E-09
ENE	1.350E-08	2.236E-08	1.490E-08	8.840E-09	6.117E-09	4.602E-09	3.845E-09	3.259E-09	2.742E-09	2.357E-09	2.059E-09
E	9.866E-09	1.805E-08	1.205E-08	7.165E-09	4.965E-09	3.739E-09	2.968E-09	2.442E-09	2.139E-09	1.889E-09	1.651E-09
ESE	1.611E-08	2.112E-08	1.408E-08	8.346E-09	5.759E-09	4.320E-09	3.417E-09	2.803E-09	2.362E-09	2.031E-09	1.775E-09
SE	2.892E-08	1.774E-08	1.366E-08	9.754E-09	7.149E-09	5.654E-09	4.695E-09	4.025E-09	3.379E-09	2.897E-09	2.524E-09
SSE	3.567E-08	3.555E-08	2.269E-08	1.275E-08	8.514E-09	6.238E-09	4.845E-09	3.917E-09	3.260E-09	2.775E-09	2.403E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.685E-08	5.106E-08	4.009E-08	3.192E-08	3.445E-08	2.155E-08	8.877E-09	4.623E-09	2.963E-09	2.133E-09
SSW	1.718E-08	2.687E-08	2.360E-08	2.214E-08	1.758E-08	1.085E-08	4.600E-09	2.415E-09	1.538E-09	1.094E-09
SW	2.877E-08	5.466E-08	3.309E-08	1.931E-08	1.313E-08	7.116E-09	2.749E-09	1.348E-09	8.430E-10	5.912E-10
WSW	1.423E-08	3.852E-08	2.372E-08	1.343E-08	8.902E-09	4.502E-09	1.732E-09	8.340E-10	5.181E-10	3.644E-10
W	6.317E-08	6.687E-08	3.380E-08	1.890E-08	1.240E-08	6.011E-09	2.768E-09	1.595E-09	1.017E-09	7.271E-10
WNW	8.653E-08	1.231E-07	6.357E-08	3.571E-08	2.306E-08	1.085E-08	4.223E-09	2.145E-09	1.375E-09	9.791E-10
NW	3.649E-08	5.584E-08	3.001E-08	1.661E-08	1.071E-08	5.029E-09	1.910E-09	9.439E-10	5.982E-10	4.249E-10
NNW	3.042E-08	7.832E-08	8.294E-08	6.555E-08	4.493E-08	2.179E-08	8.231E-09	4.100E-09	2.652E-09	1.927E-09
N	2.561E-08	3.176E-08	2.662E-08	2.010E-08	1.555E-08	9.666E-09	6.750E-09	4.977E-09	3.349E-09	2.405E-09
NNE	3.808E-08	6.179E-08	5.452E-08	4.175E-08	3.545E-08	4.425E-08	2.223E-08	1.110E-08	7.100E-09	5.105E-09
NE	2.747E-08	4.369E-08	3.693E-08	2.755E-08	2.288E-08	2.738E-08	1.362E-08	6.795E-09	4.393E-09	3.170E-09
ENE	2.015E-08	2.791E-08	2.262E-08	1.659E-08	1.347E-08	1.707E-08	8.975E-09	4.703E-09	3.230E-09	2.361E-09
E	1.506E-08	1.817E-08	1.469E-08	1.112E-08	9.460E-09	1.356E-08	7.272E-09	3.757E-09	2.477E-09	1.875E-09
ESE	1.626E-08	2.697E-08	2.418E-08	1.881E-08	1.585E-08	1.688E-08	8.471E-09	4.342E-09	2.810E-09	2.034E-09
SE	4.580E-08	7.577E-08	6.136E-08	4.412E-08	3.292E-08	1.841E-08	9.465E-09	5.669E-09	3.970E-09	2.902E-09
SSE	8.782E-08	9.351E-08	6.792E-08	4.710E-08	3.654E-08	2.986E-08	1.308E-08	6.288E-09	3.932E-09	2.781E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 2002
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	8.312E-09	1.544E-08	3.453E-08	4.921E-08	5.533E-08	4.855E-08	4.053E-08	3.376E-08	2.844E-08	3.319E-08	3.672E-08
SSW	5.507E-11	3.702E-09	1.574E-08	2.497E-08	2.923E-08	2.593E-08	2.174E-08	2.338E-08	2.328E-08	1.993E-08	1.730E-08
SW	2.507E-11	1.840E-09	2.117E-08	4.786E-08	7.016E-08	4.616E-08	3.265E-08	2.443E-08	1.907E-08	1.539E-08	1.275E-08
WSW	1.500E-16	1.555E-10	7.926E-09	2.593E-08	5.301E-08	3.370E-08	2.330E-08	1.716E-08	1.324E-08	1.059E-08	8.705E-09
W	2.272E-10	1.692E-08	6.502E-08	8.473E-08	7.883E-08	4.856E-08	3.306E-08	2.417E-08	1.859E-08	1.485E-08	1.222E-08
WNW	2.132E-10	1.117E-08	7.386E-08	1.334E-07	1.560E-07	9.240E-08	6.134E-08	4.554E-08	3.551E-08	2.791E-08	2.265E-08
NW	1.224E-09	1.202E-08	3.256E-08	5.158E-08	7.436E-08	4.379E-08	2.907E-08	2.133E-08	1.646E-08	1.296E-08	1.054E-08
NNW	1.522E-09	9.773E-09	2.390E-08	4.553E-08	8.447E-08	8.956E-08	8.472E-08	7.613E-08	6.847E-08	5.405E-08	4.404E-08
N	1.582E-10	1.192E-08	2.672E-08	3.155E-08	3.309E-08	3.071E-08	2.713E-08	2.324E-08	2.007E-08	1.751E-08	1.545E-08
NNE	2.007E-09	1.317E-08	3.487E-08	5.262E-08	6.611E-08	6.265E-08	5.523E-08	4.793E-08	4.168E-08	3.653E-08	3.232E-08
NE	1.003E-10	7.391E-09	2.542E-08	3.896E-08	4.704E-08	4.325E-08	3.734E-08	3.193E-08	2.745E-08	2.385E-08	2.096E-08
ENE	1.173E-10	7.649E-09	1.977E-08	2.664E-08	2.994E-08	2.684E-08	2.284E-08	1.934E-08	1.652E-08	1.427E-08	1.249E-08
E	1.141E-10	7.246E-09	1.570E-08	1.845E-08	1.919E-08	1.720E-08	1.484E-08	1.279E-08	1.111E-08	9.755E-09	8.665E-09
ESE	6.022E-11	4.325E-09	1.516E-08	2.302E-08	2.873E-08	2.753E-08	2.454E-08	2.150E-08	1.883E-08	1.660E-08	1.476E-08
SE	8.759E-11	6.625E-09	4.076E-08	6.908E-08	8.259E-08	7.373E-08	6.213E-08	5.210E-08	4.409E-08	3.778E-08	3.278E-08
SSE	1.956E-08	5.570E-08	8.974E-08	1.023E-07	1.000E-07	8.392E-08	6.853E-08	5.633E-08	4.699E-08	3.983E-08	3.428E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.283E-08	2.249E-08	1.462E-08	8.361E-09	5.865E-09	4.422E-09	3.416E-09	2.745E-09	2.291E-09	1.947E-09	1.673E-09
SSW	1.562E-08	1.163E-08	7.515E-09	4.267E-09	3.041E-09	2.271E-09	1.747E-09	1.398E-09	1.152E-09	9.699E-10	8.307E-10
SW	1.139E-08	7.266E-09	4.645E-09	2.595E-09	1.744E-09	1.274E-09	9.830E-10	7.829E-10	6.423E-10	5.391E-10	4.605E-10
WSW	7.554E-09	4.415E-09	2.927E-09	1.668E-09	1.101E-09	7.982E-10	6.139E-10	4.916E-10	4.055E-10	3.420E-10	2.936E-10
W	1.028E-08	5.564E-09	3.973E-09	2.626E-09	1.987E-09	1.460E-09	1.122E-09	8.972E-10	7.379E-10	6.200E-10	5.299E-10
WNW	1.902E-08	1.027E-08	6.833E-09	4.043E-09	2.719E-09	1.995E-09	1.552E-09	1.248E-09	1.028E-09	8.630E-10	7.371E-10
NW	8.866E-09	4.779E-09	3.169E-09	1.845E-09	1.229E-09	8.971E-10	6.992E-10	5.632E-10	4.657E-10	3.936E-10	3.385E-10
NNW	3.755E-08	2.122E-08	1.376E-08	7.870E-09	5.301E-09	3.903E-09	3.064E-09	2.495E-09	2.104E-09	1.794E-09	1.548E-09
N	1.381E-08	9.039E-09	7.818E-09	6.692E-09	5.883E-09	4.955E-09	3.889E-09	3.154E-09	2.623E-09	2.229E-09	1.926E-09
NNE	3.670E-08	5.713E-08	3.708E-08	2.126E-08	1.435E-08	1.059E-08	8.256E-09	6.688E-09	5.570E-09	4.738E-09	4.098E-09
NE	2.328E-08	3.510E-08	2.272E-08	1.298E-08	8.738E-09	6.430E-09	5.054E-09	4.113E-09	3.438E-09	2.918E-09	2.519E-09
ENE	1.337E-08	2.209E-08	1.466E-08	8.638E-09	5.933E-09	4.431E-09	3.677E-09	3.094E-09	2.586E-09	2.207E-09	1.915E-09
E	9.812E-09	1.789E-08	1.191E-08	7.039E-09	4.849E-09	3.630E-09	2.864E-09	2.343E-09	2.039E-09	1.789E-09	1.555E-09
ESE	1.603E-08	2.095E-08	1.393E-08	8.212E-09	5.635E-09	4.204E-09	3.307E-09	2.698E-09	2.261E-09	1.934E-09	1.681E-09
SE	2.878E-08	1.761E-08	1.353E-08	9.601E-09	6.992E-09	5.491E-09	4.524E-09	3.846E-09	3.207E-09	2.730E-09	2.362E-09
SSE	3.549E-08	3.527E-08	2.245E-08	1.254E-08	8.331E-09	6.071E-09	4.690E-09	3.771E-09	3.121E-09	2.641E-09	2.275E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.681E-08	5.096E-08	3.996E-08	3.177E-08	3.423E-08	2.129E-08	8.642E-09	4.404E-09	2.764E-09	1.947E-09
SSW	1.717E-08	2.682E-08	2.351E-08	2.203E-08	1.746E-08	1.069E-08	4.444E-09	2.267E-09	1.404E-09	9.724E-10
SW	2.874E-08	5.454E-08	3.296E-08	1.920E-08	1.303E-08	7.018E-09	2.672E-09	1.283E-09	7.865E-10	5.406E-10
WSW	1.420E-08	3.841E-08	2.362E-08	1.335E-08	8.837E-09	4.451E-09	1.696E-09	8.053E-10	4.937E-10	3.429E-10
W	6.309E-08	6.669E-08	3.364E-08	1.876E-08	1.228E-08	5.905E-09	2.641E-09	1.465E-09	9.009E-10	6.215E-10
WNW	8.641E-08	1.227E-07	6.330E-08	3.548E-08	2.287E-08	1.069E-08	4.074E-09	2.011E-09	1.251E-09	8.653E-10
NW	3.645E-08	5.571E-08	2.990E-08	1.652E-08	1.064E-08	4.972E-09	1.866E-09	9.065E-10	5.649E-10	3.946E-10
NNW	3.038E-08	7.808E-08	8.257E-08	6.517E-08	4.460E-08	2.153E-08	8.038E-09	3.940E-09	2.509E-09	1.795E-09
N	2.558E-08	3.169E-08	2.653E-08	2.000E-08	1.545E-08	9.556E-09	6.583E-09	4.776E-09	3.162E-09	2.234E-09
NNE	3.802E-08	6.162E-08	5.429E-08	4.150E-08	3.519E-08	4.368E-08	2.171E-08	1.066E-08	6.710E-09	4.747E-09
NE	2.743E-08	4.356E-08	3.675E-08	2.736E-08	2.267E-08	2.697E-08	1.326E-08	6.495E-09	4.125E-09	2.924E-09
ENE	2.013E-08	2.783E-08	2.251E-08	1.647E-08	1.334E-08	1.685E-08	8.774E-09	4.530E-09	3.067E-09	2.211E-09
E	1.504E-08	1.814E-08	1.465E-08	1.107E-08	9.413E-09	1.344E-08	7.147E-09	3.648E-09	2.376E-09	1.776E-09
ESE	1.625E-08	2.693E-08	2.412E-08	1.875E-08	1.578E-08	1.674E-08	8.338E-09	4.227E-09	2.706E-09	1.937E-09
SE	4.576E-08	7.565E-08	6.121E-08	4.397E-08	3.278E-08	1.828E-08	9.314E-09	5.505E-09	3.796E-09	2.735E-09
SSE	8.775E-08	9.337E-08	6.776E-08	4.693E-08	3.637E-08	2.962E-08	1.287E-08	6.121E-09	3.786E-09	2.648E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 2002
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	8.313E-09	1.532E-08	3.424E-08	4.897E-08	5.477E-08	4.773E-08	3.958E-08	3.278E-08	2.747E-08	3.207E-08	3.555E-08
SSW	5.508E-11	3.676E-09	1.565E-08	2.489E-08	2.896E-08	2.550E-08	2.124E-08	2.276E-08	2.258E-08	1.925E-08	1.666E-08
SW	2.507E-11	1.829E-09	2.113E-08	4.784E-08	6.939E-08	4.525E-08	3.178E-08	2.365E-08	1.838E-08	1.477E-08	1.219E-08
WSW	1.500E-16	1.556E-10	7.933E-09	2.594E-08	5.265E-08	3.328E-08	2.291E-08	1.680E-08	1.293E-08	1.031E-08	8.454E-09
W	2.272E-10	1.682E-08	6.459E-08	8.381E-08	7.764E-08	4.759E-08	3.229E-08	2.353E-08	1.806E-08	1.440E-08	1.183E-08
WNW	2.132E-10	1.111E-08	7.364E-08	1.324E-07	1.536E-07	9.017E-08	5.943E-08	4.391E-08	3.411E-08	2.667E-08	2.153E-08
NW	1.224E-09	1.191E-08	3.210E-08	5.100E-08	7.334E-08	4.286E-08	2.830E-08	2.069E-08	1.592E-08	1.249E-08	1.010E-08
NNW	1.522E-09	9.690E-09	2.365E-08	4.533E-08	8.398E-08	8.878E-08	8.383E-08	7.525E-08	6.766E-08	5.323E-08	4.319E-08
N	1.583E-10	1.183E-08	2.633E-08	3.116E-08	3.263E-08	3.019E-08	2.660E-08	2.272E-08	1.957E-08	1.705E-08	1.502E-08
NNE	2.007E-09	1.307E-08	3.458E-08	5.257E-08	6.554E-08	6.180E-08	5.423E-08	4.689E-08	4.065E-08	3.553E-08	3.137E-08
NE	1.003E-10	7.336E-09	2.521E-08	3.877E-08	4.660E-08	4.260E-08	3.658E-08	3.113E-08	2.667E-08	2.309E-08	2.023E-08
ENE	1.173E-10	7.588E-09	1.954E-08	2.642E-08	2.960E-08	2.639E-08	2.233E-08	1.881E-08	1.600E-08	1.377E-08	1.201E-08
E	1.141E-10	7.187E-09	1.547E-08	1.822E-08	1.892E-08	1.689E-08	1.453E-08	1.248E-08	1.082E-08	9.478E-09	8.404E-09
ESE	6.023E-11	4.294E-09	1.504E-08	2.291E-08	2.848E-08	2.717E-08	2.414E-08	2.109E-08	1.843E-08	1.622E-08	1.440E-08
SE	8.760E-11	6.589E-09	4.064E-08	6.899E-08	8.190E-08	7.259E-08	6.078E-08	5.067E-08	4.267E-08	3.640E-08	3.146E-08
SSE	1.956E-08	5.523E-08	8.852E-08	1.012E-07	9.861E-08	8.224E-08	6.674E-08	5.454E-08	4.525E-08	3.817E-08	3.270E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.174E-08	2.147E-08	1.357E-08	7.331E-09	4.825E-09	3.458E-09	2.577E-09	2.006E-09	1.631E-09	1.358E-09	1.145E-09
SSW	1.501E-08	1.109E-08	6.979E-09	3.755E-09	2.531E-09	1.836E-09	1.379E-09	1.080E-09	8.746E-10	7.244E-10	6.114E-10
SW	1.088E-08	6.857E-09	4.263E-09	2.254E-09	1.426E-09	9.915E-10	7.424E-10	5.769E-10	4.631E-10	3.811E-10	3.198E-10
WSW	7.325E-09	4.171E-09	2.684E-09	1.456E-09	9.249E-10	6.497E-10	4.860E-10	3.798E-10	3.064E-10	2.533E-10	2.135E-10
W	9.944E-09	5.360E-09	3.810E-09	2.420E-09	1.751E-09	1.258E-09	9.489E-10	7.467E-10	6.060E-10	5.035E-10	4.262E-10
WNW	1.799E-08	9.458E-09	6.134E-09	3.445E-09	2.182E-09	1.535E-09	1.158E-09	9.114E-10	7.362E-10	6.071E-10	5.103E-10
NW	8.459E-09	4.438E-09	2.859E-09	1.574E-09	9.899E-10	6.889E-10	5.201E-10	4.081E-10	3.297E-10	2.729E-10	2.302E-10
NNW	3.666E-08	2.016E-08	1.266E-08	6.784E-09	4.232E-09	2.923E-09	2.186E-09	1.717E-09	1.410E-09	1.175E-09	9.923E-10
N	1.340E-08	8.745E-09	7.596E-09	6.573E-09	5.693E-09	4.598E-09	3.528E-09	2.806E-09	2.294E-09	1.919E-09	1.635E-09
NNE	3.571E-08	5.584E-08	3.514E-08	1.912E-08	1.229E-08	8.704E-09	6.556E-09	5.152E-09	4.176E-09	3.467E-09	2.932E-09
NE	2.253E-08	3.421E-08	2.149E-08	1.164E-08	7.446E-09	5.255E-09	4.004E-09	3.181E-09	2.605E-09	2.169E-09	1.841E-09
ENE	1.288E-08	2.156E-08	1.389E-08	7.686E-09	4.904E-09	3.445E-09	2.710E-09	2.201E-09	1.794E-09	1.496E-09	1.271E-09
E	9.551E-09	1.758E-08	1.134E-08	6.271E-09	3.992E-09	2.800E-09	2.089E-09	1.626E-09	1.353E-09	1.145E-09	9.698E-10
ESE	1.566E-08	2.057E-08	1.326E-08	7.321E-09	4.651E-09	3.255E-09	2.423E-09	1.883E-09	1.510E-09	1.240E-09	1.039E-09
SE	2.752E-08	1.663E-08	1.272E-08	9.019E-09	6.567E-09	5.173E-09	4.282E-09	3.648E-09	2.980E-09	2.492E-09	2.122E-09
SSE	3.386E-08	3.355E-08	2.069E-08	1.098E-08	6.988E-09	4.916E-09	3.683E-09	2.883E-09	2.329E-09	1.928E-09	1.627E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.658E-08	5.036E-08	3.904E-08	3.074E-08	3.311E-08	2.024E-08	7.603E-09	3.470E-09	2.026E-09	1.360E-09
SSW	1.709E-08	2.652E-08	2.298E-08	2.136E-08	1.682E-08	1.013E-08	3.927E-09	1.838E-09	1.087E-09	7.271E-10
SW	2.872E-08	5.387E-08	3.212E-08	1.851E-08	1.247E-08	6.599E-09	2.332E-09	1.008E-09	5.808E-10	3.827E-10
WSW	1.421E-08	3.810E-08	2.323E-08	1.304E-08	8.585E-09	4.211E-09	1.493E-09	6.576E-10	3.822E-10	2.543E-10
W	6.252E-08	6.565E-08	3.286E-08	1.823E-08	1.189E-08	5.690E-09	2.432E-09	1.266E-09	7.509E-10	5.052E-10
WNW	8.587E-08	1.207E-07	6.142E-08	3.408E-08	2.174E-08	9.876E-09	3.481E-09	1.557E-09	9.153E-10	6.095E-10
NW	3.601E-08	5.483E-08	2.914E-08	1.597E-08	1.020E-08	4.630E-09	1.600E-09	7.016E-10	4.102E-10	2.739E-10
NNW	3.018E-08	7.752E-08	8.172E-08	6.433E-08	4.375E-08	2.049E-08	6.956E-09	2.977E-09	1.734E-09	1.177E-09
N	2.526E-08	3.122E-08	2.601E-08	1.951E-08	1.502E-08	9.269E-09	6.409E-09	4.462E-09	2.817E-09	1.925E-09
NNE	3.780E-08	6.100E-08	5.331E-08	4.048E-08	3.421E-08	4.217E-08	1.964E-08	8.800E-09	5.182E-09	3.479E-09
NE	2.727E-08	4.308E-08	3.601E-08	2.658E-08	2.193E-08	2.596E-08	1.196E-08	5.339E-09	3.197E-09	2.177E-09
ENE	1.994E-08	2.746E-08	2.200E-08	1.595E-08	1.285E-08	1.622E-08	7.828E-09	3.540E-09	2.191E-09	1.501E-09
E	1.485E-08	1.786E-08	1.434E-08	1.078E-08	9.147E-09	1.302E-08	6.384E-09	2.833E-09	1.654E-09	1.142E-09
ESE	1.615E-08	2.666E-08	2.373E-08	1.835E-08	1.541E-08	1.623E-08	7.454E-09	3.295E-09	1.895E-09	1.246E-09
SE	4.567E-08	7.489E-08	5.988E-08	4.257E-08	3.147E-08	1.731E-08	8.751E-09	5.188E-09	3.575E-09	2.499E-09
SSE	8.676E-08	9.191E-08	6.599E-08	4.521E-08	3.475E-08	2.790E-08	1.136E-08	4.975E-09	2.900E-09	1.936E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.973E-09	2.080E-09	2.472E-09	2.112E-09	1.197E-09	7.779E-10	5.414E-10	3.948E-10	2.979E-10	2.418E-10	2.210E-10
SSW	6.023E-10	8.263E-10	1.200E-09	1.115E-09	6.615E-10	4.365E-10	3.060E-10	2.240E-10	2.124E-10	1.606E-10	1.257E-10
SW	3.168E-10	5.070E-10	7.999E-10	7.644E-10	8.942E-10	4.857E-10	3.002E-10	2.035E-10	1.469E-10	1.110E-10	8.687E-11
WSW	1.360E-11	8.158E-11	1.737E-10	4.153E-10	2.228E-10	1.212E-10	7.496E-11	5.083E-11	3.670E-11	2.773E-11	2.169E-11
W	2.869E-10	1.538E-09	1.367E-09	8.575E-10	4.142E-10	2.216E-10	1.359E-10	9.171E-11	6.606E-11	4.993E-11	3.916E-11
WNW	8.402E-10	8.601E-10	2.528E-09	1.854E-09	1.115E-09	5.639E-10	3.362E-10	2.240E-10	1.671E-10	1.285E-10	1.044E-10
NW	1.603E-09	1.255E-09	9.949E-10	1.089E-09	6.152E-10	3.063E-10	1.814E-10	1.205E-10	8.719E-11	6.743E-11	5.499E-11
NNW	1.622E-09	1.369E-09	1.238E-09	8.975E-10	7.444E-10	4.061E-10	2.620E-10	2.311E-10	1.835E-10	1.581E-10	1.443E-10
N	1.380E-09	1.311E-09	1.394E-09	1.123E-09	6.140E-10	3.941E-10	2.727E-10	1.982E-10	1.493E-10	1.157E-10	9.158E-11
NNE	9.041E-10	1.244E-09	1.809E-09	1.681E-09	9.978E-10	6.585E-10	4.617E-10	3.379E-10	2.554E-10	1.981E-10	1.569E-10
NE	8.755E-10	1.072E-09	1.444E-09	1.303E-09	7.618E-10	5.002E-10	3.499E-10	2.558E-10	1.933E-10	1.498E-10	1.187E-10
ENE	1.107E-09	1.065E-09	1.150E-09	9.342E-10	5.137E-10	3.304E-10	2.288E-10	1.664E-10	1.254E-10	9.713E-11	7.691E-11
E	1.089E-09	9.592E-10	9.238E-10	7.003E-10	3.676E-10	2.324E-10	1.596E-10	1.155E-10	8.689E-11	6.725E-11	5.324E-11
ESE	5.955E-10	7.855E-10	1.113E-09	1.025E-09	6.053E-10	3.988E-10	2.794E-10	2.044E-10	1.545E-10	1.198E-10	9.488E-11
SE	1.293E-09	2.183E-09	3.529E-09	3.399E-09	2.053E-09	1.363E-09	9.580E-10	7.021E-10	5.311E-10	4.120E-10	3.263E-10
SSE	7.901E-09	6.993E-09	6.780E-09	5.163E-09	2.719E-09	1.721E-09	1.182E-09	8.563E-10	6.440E-10	4.984E-10	3.947E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	1.777E-10	1.287E-10	8.844E-11	5.152E-11	3.261E-11	2.326E-11	1.664E-11	1.247E-11	9.761E-12	7.781E-12	6.351E-12
SSW	1.014E-10	6.455E-11	4.280E-11	2.412E-11	1.713E-11	1.159E-11	8.303E-12	6.235E-12	4.873E-12	3.893E-12	3.177E-12
SW	6.984E-11	4.214E-11	2.747E-11	1.523E-11	9.507E-12	7.748E-12	5.489E-12	4.122E-12	3.205E-12	2.560E-12	2.090E-12
WSW	2.212E-11	2.419E-11	1.860E-11	1.073E-11	6.496E-12	4.356E-12	3.162E-12	2.374E-12	1.846E-12	1.475E-12	1.204E-12
W	3.166E-11	1.461E-11	1.901E-11	1.248E-11	7.655E-12	5.132E-12	3.678E-12	2.762E-12	2.147E-12	1.715E-12	1.400E-12
WNW	8.900E-11	5.158E-11	3.609E-11	2.136E-11	1.318E-11	9.084E-12	6.650E-12	4.994E-12	3.908E-12	3.122E-12	2.548E-12
NW	4.697E-11	2.735E-11	1.921E-11	1.204E-11	7.374E-12	4.948E-12	3.527E-12	2.648E-12	2.059E-12	1.645E-12	1.342E-12
NNW	1.367E-10	1.058E-10	8.343E-11	5.398E-11	3.497E-11	2.316E-11	1.350E-11	9.986E-12	7.712E-12	6.162E-12	5.032E-12
N	7.385E-11	3.508E-11	2.146E-11	1.138E-11	4.259E-11	2.394E-11	1.704E-11	1.280E-11	9.951E-12	7.949E-12	6.488E-12
NNE	1.264E-10	2.843E-10	1.760E-10	9.127E-11	5.569E-11	3.728E-11	2.664E-11	1.994E-11	1.546E-11	1.232E-11	1.004E-11
NE	9.562E-11	1.627E-10	1.019E-10	5.353E-11	3.278E-11	2.191E-11	1.546E-11	1.155E-11	8.979E-12	7.213E-12	5.888E-12
ENE	6.201E-11	9.549E-11	7.274E-11	4.592E-11	2.957E-11	1.960E-11	1.375E-11	8.845E-12	6.880E-12	5.498E-12	4.490E-12
E	4.296E-11	8.339E-11	6.526E-11	4.200E-11	2.716E-11	1.799E-11	1.259E-11	9.188E-12	6.969E-12	4.839E-12	3.945E-12
ESE	7.646E-11	1.324E-10	1.021E-10	6.496E-11	4.184E-11	2.766E-11	1.934E-11	1.410E-11	1.069E-11	8.358E-12	6.694E-12
SE	2.629E-10	1.246E-10	7.597E-11	4.000E-11	2.441E-11	1.683E-11	1.262E-11	2.777E-11	2.124E-11	1.674E-11	1.352E-11
SSE	3.184E-10	3.584E-10	2.178E-10	1.106E-10	6.704E-11	4.495E-11	3.220E-11	2.417E-11	1.879E-11	1.501E-11	1.225E-11

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.225E-09	1.214E-09	5.458E-10	3.042E-10	2.112E-10	1.217E-10	5.132E-11	2.310E-11	1.263E-11	7.838E-12
SSW	1.079E-09	6.622E-10	3.080E-10	1.960E-10	1.270E-10	6.306E-11	2.516E-11	1.175E-11	6.307E-12	3.918E-12
SW	7.190E-10	6.838E-10	3.110E-10	1.494E-10	8.772E-11	4.177E-11	1.541E-11	7.314E-12	4.163E-12	2.577E-12
WSW	2.606E-10	2.204E-10	7.764E-11	3.732E-11	2.364E-11	2.124E-11	1.060E-11	4.449E-12	2.398E-12	1.484E-12
W	1.179E-09	4.271E-10	1.411E-10	6.724E-11	3.957E-11	2.035E-11	1.179E-11	5.223E-12	2.789E-12	1.726E-12
WNW	1.858E-09	1.034E-09	3.520E-10	1.686E-10	1.058E-10	5.301E-11	2.100E-11	9.202E-12	5.053E-12	3.142E-12
NW	1.095E-09	5.833E-10	1.903E-10	8.919E-11	5.571E-11	2.809E-11	1.156E-11	5.026E-12	2.675E-12	1.656E-12
NNW	1.116E-09	6.281E-10	2.880E-10	1.874E-10	1.456E-10	1.027E-10	5.208E-11	2.244E-11	1.012E-11	6.203E-12
N	1.255E-09	6.294E-10	2.753E-10	1.505E-10	9.215E-11	3.764E-11	2.749E-11	2.616E-11	1.293E-11	8.001E-12
NNE	1.627E-09	9.989E-10	4.646E-10	2.572E-10	1.578E-10	2.011E-10	9.428E-11	3.793E-11	2.015E-11	1.240E-11
NE	1.299E-09	7.659E-10	3.523E-10	1.946E-10	1.194E-10	1.208E-10	5.505E-11	2.223E-11	1.169E-11	7.246E-12
ENE	1.035E-09	5.257E-10	2.309E-10	1.263E-10	7.738E-11	7.794E-11	4.461E-11	1.992E-11	9.497E-12	5.534E-12
E	8.323E-10	3.815E-10	1.614E-10	8.760E-11	5.358E-11	6.635E-11	4.058E-11	1.827E-11	9.314E-12	5.139E-12
ESE	1.001E-09	6.068E-10	2.812E-10	1.555E-10	9.545E-11	1.065E-10	6.294E-11	2.811E-11	1.430E-11	8.433E-12
SE	3.172E-09	2.046E-09	9.636E-10	5.346E-10	3.282E-10	1.337E-10	4.106E-11	1.717E-11	2.095E-11	1.688E-11
SSE	6.109E-09	2.818E-09	1.195E-09	6.492E-10	3.972E-10	2.870E-10	1.151E-10	4.574E-11	2.442E-11	1.511E-11

ERP ELEVATED STACK RELEASES - JAN-MAR 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	3.8E-08	3.8E-08	3.8E-08	2.4E-09
A	Site Boundary	SSW	.82	1.9E-08	1.9E-08	1.9E-08	1.2E-09
A	Site Boundary	SW	.97	4.6E-08	4.6E-08	4.6E-08	7.9E-10
A	Site Boundary	WSW	.93	2.0E-08	2.0E-08	2.0E-08	3.3E-10
A	Site Boundary	W	.91	8.1E-08	8.1E-08	8.0E-08	1.0E-09
A	Site Boundary	WNW	.94	1.2E-07	1.2E-07	1.2E-07	2.1E-09
A	Site Boundary	NW	.81	3.7E-08	3.7E-08	3.7E-08	8.9E-10
A	Site Boundary	NNW	.69	1.9E-08	1.9E-08	1.8E-08	1.3E-09
A	Site Boundary	N	.67	2.2E-08	2.2E-08	2.2E-08	1.4E-09
A	Site Boundary	NNE	.60	1.9E-08	1.9E-08	1.9E-08	1.5E-09
A	Site Boundary	NE	.62	1.5E-08	1.5E-08	1.5E-08	1.2E-09
A	Site Boundary	ENE	.59	1.1E-08	1.1E-08	1.1E-08	1.1E-09
A	Site Boundary	E	.53	8.1E-09	8.1E-09	8.0E-09	9.5E-10
A	Site Boundary	ESE	.54	5.5E-09	5.5E-09	5.4E-09	8.3E-10
A	Site Boundary	SE	.65	2.3E-08	2.3E-08	2.3E-08	3.0E-09
A	Site Boundary	SSE	.81	9.4E-08	9.4E-08	9.3E-08	6.4E-09
A	Nearest Res	SW	1.30	6.6E-08	6.6E-08	6.6E-08	1.2E-09
A	Nearest Res	WSW	2.50	2.3E-08	2.3E-08	2.3E-08	7.5E-11
A	Nearest Res	W	1.00	8.5E-08	8.5E-08	8.4E-08	8.6E-10
A	Nearest Res	WNW	1.70	1.2E-07	1.2E-07	1.2E-07	8.3E-10
A	Nearest Res	NW	.90	4.4E-08	4.4E-08	4.4E-08	1.2E-09
A	Nearest Res	NNW	1.90	9.0E-08	9.0E-08	8.9E-08	4.5E-10
A	Nearest Res	N	3.00	2.3E-08	2.3E-08	2.3E-08	2.0E-10
A	Nearest Res	ENE	1.70	2.9E-08	2.9E-08	2.9E-08	4.2E-10
A	Nearest Res	E	1.80	1.8E-08	1.8E-08	1.8E-08	2.7E-10
A	Nearest Res	ESE	2.30	2.6E-08	2.6E-08	2.5E-08	3.2E-10
A	Nearest Cow	NNW	3.50	6.9E-08	6.8E-08	6.8E-08	1.8E-10
A	Nearest Garde	SW	1.30	6.6E-08	6.6E-08	6.6E-08	1.2E-09
A	Nearest Garde	WSW	1.90	3.7E-08	3.7E-08	3.6E-08	1.4E-10
A	Nearest Garde	WNW	2.40	6.6E-08	6.6E-08	6.4E-08	3.7E-10
A	Nearest Garde	NW	2.90	2.3E-08	2.3E-08	2.2E-08	1.3E-10
A	Nearest Garde	NNW	1.90	9.0E-08	9.0E-08	8.9E-08	4.5E-10
A	Nearest Garde	N	3.00	2.3E-08	2.3E-08	2.3E-08	2.0E-10
A	Nearest Garde	ESE	2.30	2.6E-08	2.6E-08	2.5E-08	3.2E-10
A	MAXIMUM CHI/Q	S	1.50	5.5E-08	5.5E-08	5.5E-08	1.2E-09
A	MAXIMUM CHI/Q	SSW	1.50	2.9E-08	2.9E-08	2.9E-08	6.6E-10
A	MAXIMUM CHI/Q	SW	1.50	7.0E-08	7.0E-08	6.9E-08	8.9E-10
A	MAXIMUM CHI/Q	WSW	1.50	5.3E-08	5.3E-08	5.3E-08	2.2E-10
A	MAXIMUM CHI/Q	W	1.00	8.5E-08	8.5E-08	8.4E-08	8.6E-10
A	MAXIMUM CHI/Q	WNW	1.50	1.6E-07	1.6E-07	1.5E-07	1.1E-09
A	MAXIMUM CHI/Q	NW	1.50	7.5E-08	7.4E-08	7.3E-08	6.2E-10
A	MAXIMUM CHI/Q	NNW	2.00	9.0E-08	9.0E-08	8.9E-08	4.1E-10
A	MAXIMUM CHI/Q	N	1.50	3.3E-08	3.3E-08	3.3E-08	6.1E-10
A	MAXIMUM CHI/Q	NNE	1.50	6.6E-08	6.6E-08	6.6E-08	1.0E-09
A	MAXIMUM CHI/Q	NE	1.50	4.7E-08	4.7E-08	4.7E-08	7.6E-10
A	MAXIMUM CHI/Q	ENE	1.50	3.0E-08	3.0E-08	3.0E-08	5.1E-10
A	MAXIMUM CHI/Q	E	1.50	1.9E-08	1.9E-08	1.9E-08	3.7E-10
A	MAXIMUM CHI/Q	ESE	1.50	2.9E-08	2.9E-08	2.8E-08	6.1E-10
A	MAXIMUM CHI/Q	SE	1.50	8.3E-08	8.3E-08	8.2E-08	2.1E-09
A	MAXIMUM CHI/Q	SSE	1.00	1.0E-07	1.0E-07	1.0E-07	5.2E-09

Atmospheric Diffusion Estimates

Elevated Releases

April-June 2002

ERP ELEVATED STACK RELEASES - APR-JUN 2002
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.233E-09	2.618E-08	5.065E-08	5.821E-08	5.846E-08	5.090E-08	4.292E-08	3.624E-08	3.092E-08	3.829E-08	4.453E-08
SSW	6.037E-16	5.069E-10	8.076E-09	1.570E-08	2.032E-08	1.877E-08	1.620E-08	1.891E-08	2.133E-08	1.958E-08	1.822E-08
SW	9.946E-11	8.374E-09	3.593E-08	6.643E-08	9.778E-08	6.557E-08	4.720E-08	3.590E-08	2.847E-08	2.332E-08	1.959E-08
WSW	2.543E-11	1.552E-09	1.508E-08	3.937E-08	7.409E-08	4.797E-08	3.388E-08	2.547E-08	2.003E-08	1.630E-08	1.363E-08
W	2.888E-10	2.145E-08	7.001E-08	9.249E-08	9.096E-08	5.768E-08	4.038E-08	3.027E-08	2.383E-08	1.944E-08	1.629E-08
WNW	1.740E-09	8.198E-09	4.726E-08	1.008E-07	1.674E-07	1.061E-07	7.364E-08	5.770E-08	4.684E-08	3.743E-08	3.080E-08
NW	4.014E-08	4.843E-08	9.086E-08	1.726E-07	3.181E-07	1.922E-07	1.298E-07	9.691E-08	7.586E-08	6.024E-08	4.932E-08
NNW	6.545E-08	1.071E-07	1.497E-07	1.685E-07	1.911E-07	1.750E-07	1.571E-07	1.364E-07	1.176E-07	9.212E-08	7.456E-08
N	1.657E-07	2.069E-07	1.989E-07	1.589E-07	1.230E-07	1.016E-07	8.462E-08	7.002E-08	5.897E-08	5.049E-08	4.385E-08
NNE	2.185E-10	1.406E-08	3.854E-08	5.308E-08	5.922E-08	5.245E-08	4.419E-08	3.711E-08	3.146E-08	2.701E-08	2.350E-08
NE	5.251E-09	2.527E-08	3.747E-08	4.241E-08	4.335E-08	3.731E-08	3.085E-08	2.551E-08	2.135E-08	1.813E-08	1.562E-08
ENE	2.543E-11	1.830E-09	1.066E-08	1.821E-08	2.123E-08	1.824E-08	1.484E-08	1.207E-08	9.956E-09	8.345E-09	7.106E-09
E	7.133E-11	5.123E-09	1.180E-08	1.417E-08	1.390E-08	1.149E-08	9.239E-09	7.496E-09	6.187E-09	5.199E-09	4.442E-09
ESE	2.085E-10	1.273E-08	2.749E-08	3.178E-08	3.075E-08	2.572E-08	2.101E-08	1.730E-08	1.448E-08	1.232E-08	1.065E-08
SE	2.773E-09	1.524E-08	2.735E-08	3.489E-08	3.649E-08	3.101E-08	2.539E-08	2.090E-08	1.746E-08	1.483E-08	1.279E-08
SSE	1.140E-08	5.710E-08	7.439E-08	6.892E-08	5.910E-08	4.876E-08	4.002E-08	3.321E-08	2.798E-08	2.394E-08	2.078E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.017E-08	2.686E-08	1.745E-08	9.998E-09	6.927E-09	5.185E-09	4.037E-09	3.270E-09	2.738E-09	2.339E-09	2.027E-09
SSW	1.798E-08	1.844E-08	1.228E-08	7.280E-09	5.441E-09	4.170E-09	3.284E-09	2.686E-09	2.259E-09	1.941E-09	1.694E-09
SW	1.833E-08	1.622E-08	1.088E-08	6.503E-09	4.865E-09	3.842E-09	3.150E-09	2.576E-09	2.166E-09	1.861E-09	1.624E-09
WSW	1.230E-08	8.800E-09	6.515E-09	4.180E-09	2.846E-09	2.117E-09	1.664E-09	1.359E-09	1.141E-09	9.791E-10	8.540E-10
W	1.395E-08	8.079E-09	6.416E-09	4.947E-09	4.142E-09	3.138E-09	2.481E-09	2.036E-09	1.718E-09	1.479E-09	1.294E-09
WNW	2.626E-08	1.491E-08	1.020E-08	6.228E-09	4.284E-09	3.205E-09	2.535E-09	2.072E-09	1.735E-09	1.483E-09	1.290E-09
NW	4.187E-08	2.339E-08	1.593E-08	9.613E-09	6.501E-09	4.811E-09	3.809E-09	3.104E-09	2.597E-09	2.220E-09	1.930E-09
NNW	6.285E-08	3.399E-08	2.187E-08	1.243E-08	8.368E-09	6.169E-09	4.835E-09	3.936E-09	3.305E-09	2.822E-09	2.449E-09
N	3.869E-08	2.425E-08	1.958E-08	1.438E-08	1.087E-08	8.364E-09	6.518E-09	5.275E-09	4.394E-09	3.741E-09	3.241E-09
NNE	2.514E-08	2.692E-08	1.721E-08	9.685E-09	6.470E-09	4.742E-09	3.683E-09	2.977E-09	2.477E-09	2.108E-09	1.825E-09
NE	1.607E-08	1.466E-08	9.286E-09	5.153E-09	3.409E-09	2.479E-09	1.919E-09	1.545E-09	1.282E-09	1.085E-09	9.359E-10
ENE	6.901E-09	6.764E-09	4.374E-09	2.495E-09	1.680E-09	1.239E-09	1.005E-09	8.343E-10	6.954E-10	5.926E-10	5.139E-10
E	4.403E-09	4.675E-09	3.032E-09	1.737E-09	1.175E-09	8.693E-10	6.802E-10	5.533E-10	4.752E-10	4.135E-10	3.590E-10
ESE	1.078E-08	1.125E-08	7.344E-09	4.231E-09	2.867E-09	2.122E-09	1.660E-09	1.349E-09	1.128E-09	9.631E-10	8.365E-10
SE	1.119E-08	6.821E-09	5.324E-09	3.979E-09	2.974E-09	2.380E-09	1.987E-09	1.706E-09	1.434E-09	1.231E-09	1.074E-09
SSE	2.224E-08	2.332E-08	1.492E-08	8.415E-09	5.640E-09	4.143E-09	3.225E-09	2.612E-09	2.177E-09	1.855E-09	1.608E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
S	4.857E-08	5.504E-08	4.238E-08	3.525E-08	4.107E-08	2.564E-08	1.029E-08	5.190E-09	3.286E-09	2.341E-09
SSW	9.781E-09	1.860E-08	1.797E-08	1.997E-08	1.853E-08	1.560E-08	7.573E-09	4.155E-09	2.695E-09	1.944E-09
SW	4.336E-08	7.650E-08	4.758E-08	2.863E-08	2.023E-08	1.431E-08	6.747E-09	3.838E-09	2.584E-09	1.864E-09
WSW	2.287E-08	5.476E-08	3.427E-08	2.016E-08	1.393E-08	8.562E-09	4.106E-09	2.130E-09	1.363E-09	9.809E-10
W	6.921E-08	7.651E-08	4.095E-08	2.400E-08	1.636E-08	8.645E-09	4.916E-09	3.143E-09	2.042E-09	1.481E-09
WNW	6.238E-08	1.253E-07	7.591E-08	4.636E-08	3.108E-08	1.534E-08	6.247E-09	3.225E-09	2.076E-09	1.486E-09
NW	1.178E-07	2.298E-07	1.333E-07	7.592E-08	4.980E-08	2.418E-08	9.635E-09	4.861E-09	3.112E-09	2.224E-09
NNW	1.486E-07	1.790E-07	1.536E-07	1.133E-07	7.543E-08	3.502E-08	1.272E-08	6.222E-09	3.952E-09	2.827E-09
N	1.829E-07	1.214E-07	8.330E-08	5.890E-08	4.390E-08	2.538E-08	1.398E-08	8.295E-09	5.295E-09	3.750E-09
NNE	3.957E-08	5.485E-08	4.356E-08	3.138E-08	2.515E-08	2.221E-08	9.928E-09	4.779E-09	2.988E-09	2.113E-09
NE	3.695E-08	4.046E-08	3.044E-08	2.131E-08	1.653E-08	1.259E-08	5.297E-09	2.503E-09	1.551E-09	1.088E-09
ENE	1.205E-08	1.923E-08	1.464E-08	9.947E-09	7.397E-09	5.732E-09	2.550E-09	1.263E-09	8.301E-10	5.939E-10
E	1.137E-08	1.289E-08	9.141E-09	6.185E-09	4.652E-09	3.884E-09	1.775E-09	8.753E-10	5.598E-10	4.116E-10
ESE	2.612E-08	2.874E-08	2.078E-08	1.446E-08	1.119E-08	9.410E-09	4.317E-09	2.136E-09	1.353E-09	9.650E-10
SE	2.801E-08	3.370E-08	2.509E-08	1.744E-08	1.280E-08	7.127E-09	3.831E-09	2.381E-09	1.683E-09	1.233E-09
SSE	6.812E-08	5.668E-08	3.963E-08	2.793E-08	2.226E-08	1.935E-08	8.627E-09	4.175E-09	2.621E-09	1.859E-09

ERP ELEVATED STACK RELEASES - APR-JUN 2002
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.232E-09	2.617E-08	5.061E-08	5.815E-08	5.835E-08	5.077E-08	4.278E-08	3.609E-08	3.078E-08	3.807E-08	4.422E-08
SSW	6.036E-16	5.066E-10	8.069E-09	1.568E-08	2.028E-08	1.872E-08	1.615E-08	1.883E-08	2.123E-08	1.946E-08	1.810E-08
SW	9.942E-11	8.367E-09	3.589E-08	6.634E-08	9.757E-08	6.538E-08	4.702E-08	3.574E-08	2.833E-08	2.318E-08	1.946E-08
WSW	2.543E-11	1.551E-09	1.507E-08	3.932E-08	7.393E-08	4.783E-08	3.376E-08	2.536E-08	1.993E-08	1.621E-08	1.354E-08
W	2.886E-10	2.143E-08	6.992E-08	9.234E-08	9.074E-08	5.750E-08	4.021E-08	3.012E-08	2.368E-08	1.930E-08	1.616E-08
WNW	1.740E-09	8.195E-09	4.721E-08	1.007E-07	1.670E-07	1.058E-07	7.339E-08	5.746E-08	4.662E-08	3.722E-08	3.060E-08
NW	4.013E-08	4.841E-08	9.080E-08	1.724E-07	3.174E-07	1.916E-07	1.293E-07	9.651E-08	7.549E-08	5.991E-08	4.901E-08
NNW	6.544E-08	1.071E-07	1.496E-07	1.684E-07	1.909E-07	1.747E-07	1.567E-07	1.360E-07	1.172E-07	9.171E-08	7.419E-08
N	1.656E-07	2.068E-07	1.987E-07	1.587E-07	1.228E-07	1.014E-07	8.443E-08	6.983E-08	5.879E-08	5.030E-08	4.367E-08
NNE	2.185E-10	1.406E-08	3.851E-08	5.301E-08	5.909E-08	5.230E-08	4.403E-08	3.694E-08	3.130E-08	2.685E-08	2.334E-08
NE	5.251E-09	2.526E-08	3.743E-08	4.234E-08	4.322E-08	3.716E-08	3.069E-08	2.536E-08	2.120E-08	1.798E-08	1.547E-08
ENE	2.543E-11	1.829E-09	1.065E-08	1.819E-08	2.119E-08	1.819E-08	1.479E-08	1.202E-08	9.909E-09	8.300E-09	7.063E-09
E	7.131E-11	5.119E-09	1.179E-08	1.415E-08	1.386E-08	1.145E-08	9.204E-09	7.462E-09	6.155E-09	5.168E-09	4.412E-09
ESE	2.085E-10	1.272E-08	2.747E-08	3.175E-08	3.070E-08	2.565E-08	2.094E-08	1.723E-08	1.441E-08	1.226E-08	1.059E-08
SE	2.771E-09	1.523E-08	2.732E-08	3.485E-08	3.643E-08	3.094E-08	2.532E-08	2.083E-08	1.739E-08	1.476E-08	1.273E-08
SSE	1.140E-08	5.708E-08	7.433E-08	6.884E-08	5.900E-08	4.865E-08	3.991E-08	3.310E-08	2.787E-08	2.383E-08	2.068E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.986E-08	2.654E-08	1.716E-08	9.752E-09	6.700E-09	4.972E-09	3.839E-09	3.084E-09	2.561E-09	2.169E-09	1.865E-09
SSW	1.785E-08	1.821E-08	1.207E-08	7.096E-09	5.254E-09	3.991E-09	3.115E-09	2.525E-09	2.105E-09	1.792E-09	1.550E-09
SW	1.819E-08	1.602E-08	1.069E-08	6.338E-09	4.698E-09	3.675E-09	2.985E-09	2.419E-09	2.016E-09	1.715E-09	1.484E-09
WSW	1.221E-08	8.695E-09	6.408E-09	4.074E-09	2.750E-09	2.027E-09	1.580E-09	1.279E-09	1.064E-09	9.050E-10	7.823E-10
W	1.383E-08	7.962E-09	6.281E-09	4.771E-09	3.933E-09	2.940E-09	2.293E-09	1.857E-09	1.546E-09	1.314E-09	1.135E-09
WNW	2.608E-08	1.476E-08	1.006E-08	6.099E-09	4.167E-09	3.096E-09	2.432E-09	1.974E-09	1.641E-09	1.394E-09	1.204E-09
NW	4.158E-08	2.315E-08	1.572E-08	9.421E-09	6.330E-09	4.653E-09	3.661E-09	2.964E-09	2.463E-09	2.092E-09	1.808E-09
NNW	6.250E-08	3.370E-08	2.163E-08	1.222E-08	8.183E-09	5.999E-09	4.675E-09	3.785E-09	3.160E-09	2.684E-09	2.316E-09
N	3.851E-08	2.408E-08	1.939E-08	1.417E-08	1.066E-08	8.156E-09	6.323E-09	5.092E-09	4.220E-09	3.575E-09	3.082E-09
NNE	2.495E-08	2.662E-08	1.695E-08	9.470E-09	6.280E-09	4.569E-09	3.522E-09	2.826E-09	2.335E-09	1.972E-09	1.695E-09
NE	1.590E-08	1.445E-08	9.105E-09	5.005E-09	3.280E-09	2.363E-09	1.812E-09	1.446E-09	1.188E-09	9.972E-10	8.520E-10
ENE	6.854E-09	6.702E-09	4.321E-09	2.450E-09	1.641E-09	1.203E-09	9.706E-10	8.014E-10	6.643E-10	5.630E-10	4.855E-10
E	4.370E-09	4.624E-09	2.988E-09	1.699E-09	1.141E-09	8.383E-10	6.513E-10	5.261E-10	4.487E-10	3.877E-10	3.343E-10
ESE	1.071E-08	1.110E-08	7.211E-09	4.114E-09	2.761E-09	2.023E-09	1.568E-09	1.262E-09	1.045E-09	8.835E-10	7.601E-10
SE	1.112E-08	6.756E-09	5.251E-09	3.885E-09	2.876E-09	2.279E-09	1.884E-09	1.602E-09	1.334E-09	1.134E-09	9.804E-10
SSE	2.212E-08	2.313E-08	1.475E-08	8.275E-09	5.515E-09	4.029E-09	3.118E-09	2.511E-09	2.081E-09	1.764E-09	1.520E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	4.853E-08	5.494E-08	4.224E-08	3.507E-08	4.079E-08	2.533E-08	1.004E-08	4.980E-09	3.100E-09	2.172E-09
SSW	9.770E-09	1.856E-08	1.791E-08	1.987E-08	1.841E-08	1.540E-08	7.383E-09	3.977E-09	2.534E-09	1.795E-09
SW	4.330E-08	7.632E-08	4.741E-08	2.849E-08	2.009E-08	1.414E-08	6.577E-09	3.671E-09	2.427E-09	1.719E-09
WSW	2.284E-08	5.464E-08	3.415E-08	2.006E-08	1.384E-08	8.459E-09	4.004E-09	2.041E-09	1.283E-09	9.068E-10
W	6.911E-08	7.632E-08	4.078E-08	2.385E-08	1.623E-08	8.518E-09	4.734E-09	2.946E-09	1.863E-09	1.316E-09
WNW	6.230E-08	1.250E-07	7.565E-08	4.614E-08	3.089E-08	1.519E-08	6.121E-09	3.116E-09	1.978E-09	1.397E-09
NW	1.176E-07	2.293E-07	1.328E-07	7.556E-08	4.949E-08	2.394E-08	9.447E-09	4.703E-09	2.972E-09	2.097E-09
NNW	1.485E-07	1.787E-07	1.532E-07	1.129E-07	7.505E-08	3.474E-08	1.252E-08	6.052E-09	3.801E-09	2.689E-09
N	1.828E-07	1.213E-07	8.312E-08	5.871E-08	4.372E-08	2.520E-08	1.377E-08	8.090E-09	5.112E-09	3.584E-09
NNE	3.952E-08	5.472E-08	4.340E-08	3.122E-08	2.498E-08	2.195E-08	9.716E-09	4.607E-09	2.838E-09	1.977E-09
NE	3.691E-08	4.033E-08	3.028E-08	2.116E-08	1.637E-08	1.240E-08	5.150E-09	2.387E-09	1.452E-09	1.000E-09
ENE	1.204E-08	1.919E-08	1.459E-08	9.900E-09	7.352E-09	5.678E-09	2.506E-09	1.227E-09	7.975E-10	5.643E-10
E	1.136E-08	1.286E-08	9.107E-09	6.152E-09	4.620E-09	3.840E-09	1.738E-09	8.444E-10	5.324E-10	3.860E-10
ESE	2.609E-08	2.869E-08	2.071E-08	1.440E-08	1.113E-08	9.284E-09	4.201E-09	2.038E-09	1.266E-09	8.855E-10
SE	2.798E-08	3.364E-08	2.502E-08	1.737E-08	1.274E-08	7.058E-09	3.740E-09	2.281E-09	1.581E-09	1.137E-09
SSE	6.806E-08	5.659E-08	3.951E-08	2.783E-08	2.214E-08	1.918E-08	8.488E-09	4.061E-09	2.521E-09	1.768E-09

ERP ELEVATED STACK RELEASES - APR-JUN 2002
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.233E-09	2.595E-08	4.988E-08	5.743E-08	5.750E-08	4.981E-08	4.179E-08	3.511E-08	2.984E-08	3.704E-08	4.319E-08
SSW	6.036E-16	5.068E-10	8.074E-09	1.569E-08	2.014E-08	1.846E-08	1.582E-08	1.842E-08	2.078E-08	1.903E-08	1.769E-08
SW	9.945E-11	8.302E-09	3.557E-08	6.603E-08	9.649E-08	6.417E-08	4.590E-08	3.473E-08	2.743E-08	2.239E-08	1.875E-08
WSW	2.543E-11	1.540E-09	1.502E-08	3.926E-08	7.331E-08	4.717E-08	3.317E-08	2.484E-08	1.949E-08	1.582E-08	1.319E-08
W	2.887E-10	2.118E-08	6.930E-08	9.129E-08	8.947E-08	5.648E-08	3.940E-08	2.946E-08	2.314E-08	1.884E-08	1.577E-08
WNW	1.740E-09	8.146E-09	4.708E-08	1.001E-07	1.657E-07	1.045E-07	7.237E-08	5.660E-08	4.589E-08	3.653E-08	2.992E-08
NW	4.014E-08	4.800E-08	8.984E-08	1.711E-07	3.143E-07	1.887E-07	1.269E-07	9.444E-08	7.374E-08	5.832E-08	4.752E-08
NNW	6.545E-08	1.061E-07	1.471E-07	1.661E-07	1.881E-07	1.715E-07	1.536E-07	1.331E-07	1.146E-07	8.935E-08	7.194E-08
N	1.657E-07	2.050E-07	1.948E-07	1.553E-07	1.201E-07	9.893E-08	8.216E-08	6.776E-08	5.689E-08	4.856E-08	4.207E-08
NNE	2.185E-10	1.395E-08	3.809E-08	5.261E-08	5.842E-08	5.139E-08	4.301E-08	3.590E-08	3.027E-08	2.586E-08	2.240E-08
NE	5.251E-09	2.505E-08	3.687E-08	4.186E-08	4.264E-08	3.644E-08	2.990E-08	2.455E-08	2.041E-08	1.721E-08	1.474E-08
ENE	2.543E-11	1.818E-09	1.062E-08	1.816E-08	2.100E-08	1.787E-08	1.440E-08	1.161E-08	9.498E-09	7.899E-09	6.677E-09
E	7.132E-11	5.078E-09	1.163E-08	1.399E-08	1.366E-08	1.120E-08	8.939E-09	7.197E-09	5.897E-09	4.921E-09	4.177E-09
ESE	2.085E-10	1.262E-08	2.708E-08	3.135E-08	3.022E-08	2.511E-08	2.037E-08	1.667E-08	1.387E-08	1.174E-08	1.010E-08
SE	2.772E-09	1.511E-08	2.704E-08	3.462E-08	3.601E-08	3.036E-08	2.467E-08	2.016E-08	1.673E-08	1.413E-08	1.212E-08
SSE	1.140E-08	5.659E-08	7.299E-08	6.761E-08	5.787E-08	4.755E-08	3.884E-08	3.209E-08	2.692E-08	2.295E-08	1.985E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.891E-08	2.553E-08	1.603E-08	8.570E-09	5.490E-09	3.862E-09	2.878E-09	2.242E-09	1.812E-09	1.503E-09	1.266E-09
SSW	1.747E-08	1.772E-08	1.140E-08	6.285E-09	4.347E-09	3.197E-09	2.428E-09	1.922E-09	1.568E-09	1.309E-09	1.113E-09
SW	1.755E-08	1.543E-08	1.000E-08	5.579E-09	3.850E-09	2.842E-09	2.241E-09	1.771E-09	1.443E-09	1.203E-09	1.022E-09
WSW	1.190E-08	8.338E-09	5.978E-09	3.620E-09	2.354E-09	1.684E-09	1.279E-09	1.012E-09	8.259E-10	6.898E-10	5.867E-10
W	1.348E-08	7.759E-09	6.092E-09	4.412E-09	3.456E-09	2.516E-09	1.919E-09	1.525E-09	1.249E-09	1.046E-09	8.918E-10
WNW	2.539E-08	1.397E-08	9.229E-09	5.233E-09	3.311E-09	2.347E-09	1.785E-09	1.410E-09	1.144E-09	9.504E-10	8.043E-10
NW	4.013E-08	2.173E-08	1.431E-08	8.105E-09	5.195E-09	3.674E-09	2.804E-09	2.212E-09	1.797E-09	1.495E-09	1.267E-09
NNW	6.030E-08	3.159E-08	1.964E-08	1.040E-08	6.468E-09	4.458E-09	3.305E-09	2.584E-09	2.099E-09	1.739E-09	1.466E-09
N	3.702E-08	2.299E-08	1.852E-08	1.355E-08	9.951E-09	7.291E-09	5.509E-09	4.336E-09	3.521E-09	2.928E-09	2.481E-09
NNE	2.397E-08	2.555E-08	1.579E-08	8.386E-09	5.325E-09	3.737E-09	2.795E-09	2.183E-09	1.761E-09	1.455E-09	1.226E-09
NE	1.514E-08	1.367E-08	8.368E-09	4.384E-09	2.753E-09	1.915E-09	1.429E-09	1.114E-09	8.970E-10	7.388E-10	6.205E-10
ENE	6.451E-09	6.303E-09	3.952E-09	2.124E-09	1.343E-09	9.373E-10	7.237E-10	5.788E-10	4.679E-10	3.875E-10	3.272E-10
E	4.129E-09	4.393E-09	2.761E-09	1.486E-09	9.386E-10	6.547E-10	4.864E-10	3.775E-10	3.102E-10	2.596E-10	2.186E-10
ESE	1.022E-08	1.068E-08	6.751E-09	3.644E-09	2.296E-09	1.596E-09	1.182E-09	9.147E-10	7.307E-10	5.983E-10	4.995E-10
SE	1.055E-08	6.313E-09	4.889E-09	3.637E-09	2.700E-09	2.151E-09	1.790E-09	1.530E-09	1.258E-09	1.058E-09	9.057E-10
SSE	2.128E-08	2.221E-08	1.373E-08	7.323E-09	4.684E-09	3.307E-09	2.485E-09	1.950E-09	1.579E-09	1.309E-09	1.107E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	4.792E-08	5.406E-08	4.126E-08	3.409E-08	3.978E-08	2.428E-08	8.858E-09	3.903E-09	2.260E-09	1.507E-09
SSW	9.778E-09	1.840E-08	1.756E-08	1.944E-08	1.800E-08	1.485E-08	6.559E-09	3.196E-09	1.931E-09	1.313E-09
SW	4.305E-08	7.535E-08	4.630E-08	2.760E-08	1.938E-08	1.349E-08	5.794E-09	2.871E-09	1.780E-09	1.207E-09
WSW	2.280E-08	5.413E-08	3.357E-08	1.962E-08	1.349E-08	8.080E-09	3.581E-09	1.701E-09	1.017E-09	6.919E-10
W	6.838E-08	7.521E-08	3.998E-08	2.331E-08	1.583E-08	8.290E-09	4.360E-09	2.528E-09	1.533E-09	1.049E-09
WNW	6.198E-08	1.239E-07	7.464E-08	4.538E-08	3.020E-08	1.440E-08	5.267E-09	2.379E-09	1.416E-09	9.538E-10
NW	1.166E-07	2.267E-07	1.304E-07	7.378E-08	4.798E-08	2.252E-08	8.191E-09	3.731E-09	2.223E-09	1.500E-09
NNW	1.465E-07	1.758E-07	1.502E-07	1.103E-07	7.278E-08	3.266E-08	1.071E-08	4.532E-09	2.605E-09	1.744E-09
N	1.795E-07	1.185E-07	8.087E-08	5.682E-08	4.212E-08	2.412E-08	1.305E-08	7.287E-09	4.361E-09	2.938E-09
NNE	3.918E-08	5.400E-08	4.240E-08	3.020E-08	2.401E-08	2.086E-08	8.670E-09	3.784E-09	2.197E-09	1.461E-09
NE	3.646E-08	3.971E-08	2.950E-08	2.037E-08	1.562E-08	1.164E-08	4.545E-09	1.944E-09	1.121E-09	7.419E-10
ENE	1.202E-08	1.898E-08	1.421E-08	9.493E-09	6.955E-09	5.291E-09	2.183E-09	9.599E-10	5.779E-10	3.890E-10
E	1.122E-08	1.264E-08	8.846E-09	5.896E-09	4.380E-09	3.609E-09	1.526E-09	6.631E-10	3.830E-10	2.594E-10
ESE	2.576E-08	2.820E-08	2.016E-08	1.386E-08	1.063E-08	8.832E-09	3.735E-09	1.617E-09	9.211E-10	6.010E-10
SE	2.776E-08	3.319E-08	2.439E-08	1.672E-08	1.213E-08	6.621E-09	3.499E-09	2.153E-09	1.501E-09	1.061E-09
SSE	6.695E-08	5.545E-08	3.846E-08	2.688E-08	2.130E-08	1.824E-08	7.574E-09	3.345E-09	1.961E-09	1.314E-09

ERP ELEVATED STACK RELEASES - APR-JUN 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	3.861E-09	3.376E-09	3.218E-09	2.422E-09	1.265E-09	7.983E-10	5.476E-10	3.963E-10	2.980E-10	2.526E-10	2.184E-10
SSW	4.552E-11	2.731E-10	5.814E-10	6.023E-10	3.762E-10	2.522E-10	1.782E-10	1.309E-10	1.256E-10	9.490E-11	7.424E-11
SW	8.522E-10	8.724E-10	1.007E-09	8.476E-10	8.865E-10	4.799E-10	2.963E-10	2.008E-10	1.449E-10	1.095E-10	8.568E-11
WSW	2.882E-10	3.156E-10	3.884E-10	6.963E-10	3.624E-10	1.964E-10	1.213E-10	8.218E-11	5.932E-11	4.483E-11	3.508E-11
W	2.854E-10	1.255E-09	1.092E-09	6.801E-10	3.312E-10	1.765E-10	1.081E-10	7.305E-11	5.282E-11	4.015E-11	3.175E-11
WNW	5.681E-10	5.816E-10	1.709E-09	1.273E-09	7.547E-10	3.850E-10	2.349E-10	1.637E-10	1.322E-10	1.107E-10	9.845E-11
NW	5.165E-09	4.135E-09	3.416E-09	4.097E-09	2.374E-09	1.184E-09	7.049E-10	4.735E-10	3.484E-10	2.754E-10	2.303E-10
NNW	1.408E-08	1.098E-08	8.622E-09	5.548E-09	4.006E-09	2.140E-09	1.318E-09	1.034E-09	7.488E-10	5.800E-10	4.737E-10
N	2.672E-08	2.037E-08	1.530E-08	9.409E-09	4.124E-09	2.412E-09	1.588E-09	1.125E-09	8.363E-10	6.442E-10	5.099E-10
NNE	1.972E-09	1.936E-09	2.138E-09	1.759E-09	9.746E-10	6.285E-10	4.358E-10	3.171E-10	2.391E-10	1.852E-10	1.467E-10
NE	2.736E-09	2.279E-09	2.017E-09	1.438E-09	7.213E-10	4.479E-10	3.048E-10	2.196E-10	1.648E-10	1.274E-10	1.009E-10
ENE	3.130E-10	4.646E-10	7.056E-10	6.658E-10	3.982E-10	2.634E-10	1.849E-10	1.354E-10	1.024E-10	7.942E-11	6.289E-11
E	5.599E-10	5.320E-10	5.654E-10	4.555E-10	2.491E-10	1.599E-10	1.106E-10	8.042E-11	6.059E-11	4.693E-11	3.716E-11
ESE	1.935E-09	1.713E-09	1.662E-09	1.266E-09	6.668E-10	4.221E-10	2.900E-10	2.101E-10	1.580E-10	1.223E-10	9.682E-11
SE	1.162E-09	1.320E-09	1.677E-09	1.477E-09	8.517E-10	5.568E-10	3.886E-10	2.838E-10	2.143E-10	1.661E-10	1.316E-10
SSE	6.795E-09	5.433E-09	4.478E-09	3.011E-09	1.438E-09	8.752E-10	5.891E-10	4.222E-10	3.158E-10	2.439E-10	1.931E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	1.757E-10	1.497E-10	1.069E-10	6.438E-11	4.117E-11	2.697E-11	1.929E-11	1.446E-11	1.130E-11	8.989E-12	7.337E-12
SSW	5.968E-11	6.204E-11	4.580E-11	2.822E-11	1.630E-11	1.120E-11	8.028E-12	6.028E-12	4.687E-12	3.744E-12	3.056E-12
SW	6.890E-11	6.297E-11	4.552E-11	2.764E-11	1.765E-11	1.163E-11	8.108E-12	6.089E-12	4.734E-12	3.782E-12	3.087E-12
WSW	2.899E-11	3.350E-11	2.526E-11	1.499E-11	9.071E-12	6.082E-12	4.358E-12	3.272E-12	2.544E-12	2.032E-12	1.659E-12
W	2.592E-11	1.252E-11	2.790E-11	1.838E-11	9.981E-12	6.692E-12	4.795E-12	3.601E-12	2.800E-12	2.236E-12	1.825E-12
WNW	9.149E-11	6.771E-11	5.260E-11	3.366E-11	1.957E-11	1.234E-11	8.721E-12	6.549E-12	5.092E-12	4.067E-12	3.320E-12
NW	2.019E-10	1.276E-10	9.315E-11	5.715E-11	3.477E-11	2.328E-11	1.656E-11	1.243E-11	9.668E-12	7.723E-12	6.304E-12
NNW	4.052E-10	2.369E-10	1.668E-10	9.977E-11	6.422E-11	4.338E-11	3.080E-11	2.279E-11	1.769E-11	1.413E-11	1.153E-11
N	4.126E-10	1.977E-10	1.221E-10	6.621E-11	1.193E-10	7.489E-11	5.366E-11	4.030E-11	3.133E-11	2.503E-11	2.043E-11
NNE	1.183E-10	1.606E-10	9.840E-11	5.048E-11	3.070E-11	2.056E-11	1.471E-11	1.103E-11	8.567E-12	6.839E-12	5.580E-12
NE	8.142E-11	8.485E-11	5.185E-11	2.656E-11	1.615E-11	1.082E-11	8.299E-12	6.233E-12	4.848E-12	3.914E-12	3.194E-12
ENE	5.067E-11	3.785E-11	2.481E-11	1.384E-11	8.649E-12	5.778E-12	4.114E-12	3.627E-12	2.823E-12	2.257E-12	1.844E-12
E	2.996E-11	2.387E-11	1.604E-11	9.168E-12	5.790E-12	3.882E-12	2.770E-12	2.068E-12	1.601E-12	1.405E-12	1.147E-12
ESE	7.811E-11	6.774E-11	4.663E-11	2.726E-11	1.733E-11	1.161E-11	8.274E-12	6.164E-12	4.761E-12	3.792E-12	3.090E-12
SE	1.060E-10	5.029E-11	3.072E-11	1.623E-11	9.932E-12	6.841E-12	5.103E-12	7.945E-12	6.148E-12	4.904E-12	4.007E-12
SSE	1.560E-10	2.142E-10	1.298E-10	6.572E-11	3.982E-11	2.671E-11	1.915E-11	1.439E-11	1.119E-11	8.946E-12	7.306E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.899E-09	1.315E-09	5.539E-10	3.088E-10	2.127E-10	1.364E-10	6.351E-11	2.769E-11	1.463E-11	9.061E-12
SSW	5.222E-10	3.713E-10	1.790E-10	1.154E-10	7.497E-11	5.430E-11	2.683E-11	1.129E-11	6.088E-12	3.768E-12
SW	9.061E-10	6.971E-10	3.071E-10	1.474E-10	8.652E-11	5.653E-11	2.717E-11	1.183E-11	6.150E-12	3.806E-12
WSW	5.091E-10	3.628E-10	1.257E-10	6.033E-11	3.571E-11	2.884E-11	1.464E-11	6.189E-12	3.305E-12	2.046E-12
W	9.451E-10	3.399E-10	1.123E-10	5.377E-11	3.208E-11	2.234E-11	1.676E-11	6.810E-12	3.637E-12	2.251E-12
WNW	1.264E-09	7.055E-10	2.464E-10	1.330E-10	9.950E-11	6.628E-11	3.161E-11	1.282E-11	6.614E-12	4.094E-12
NW	3.878E-09	2.228E-09	7.402E-10	3.563E-10	2.331E-10	1.288E-10	5.520E-11	2.366E-11	1.256E-11	7.774E-12
NNW	7.779E-09	3.519E-09	1.423E-09	7.659E-10	4.798E-10	2.432E-10	9.887E-11	4.391E-11	2.314E-11	1.422E-11
N	1.381E-08	4.538E-09	1.623E-09	8.456E-10	5.136E-10	2.118E-10	1.022E-10	7.825E-11	4.070E-11	2.519E-11
NNE	1.924E-09	9.950E-10	4.397E-10	2.409E-10	1.476E-10	1.235E-10	5.234E-11	2.093E-11	1.114E-11	6.884E-12
NE	1.818E-09	7.591E-10	3.089E-10	1.662E-10	1.015E-10	6.942E-11	2.755E-11	1.123E-11	6.296E-12	3.924E-12
ENE	6.343E-10	3.977E-10	1.860E-10	1.031E-10	6.326E-11	3.490E-11	1.397E-11	5.878E-12	3.460E-12	2.272E-12
E	5.091E-10	2.553E-10	1.117E-10	6.105E-11	3.739E-11	2.174E-11	9.193E-12	3.946E-12	2.090E-12	1.367E-12
ESE	1.497E-09	6.912E-10	2.932E-10	1.593E-10	9.743E-11	6.066E-11	2.715E-11	1.180E-11	6.232E-12	3.819E-12
SE	1.509E-09	8.595E-10	3.915E-10	2.158E-10	1.323E-10	5.398E-11	1.665E-11	6.970E-12	6.448E-12	4.940E-12
SSE	4.038E-09	1.538E-09	5.986E-10	3.188E-10	1.944E-10	1.638E-10	6.846E-11	2.718E-11	1.453E-11	9.004E-12

ERP ELEVATED STACK RELEASES - APR-JUN 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	5.3E-08	5.3E-08	5.2E-08	3.1E-09
A	Site Boundary	SSW	.82	1.1E-08	1.1E-08	1.1E-08	6.2E-10
A	Site Boundary	SW	.97	6.4E-08	6.4E-08	6.3E-08	8.8E-10
A	Site Boundary	WSW	.93	3.2E-08	3.2E-08	3.2E-08	4.8E-10
A	Site Boundary	W	.91	8.7E-08	8.7E-08	8.6E-08	8.0E-10
A	Site Boundary	WNW	.94	8.8E-08	8.8E-08	8.7E-08	1.4E-09
A	Site Boundary	NW	.81	1.1E-07	1.1E-07	1.1E-07	3.1E-09
A	Site Boundary	NNW	.69	1.4E-07	1.4E-07	1.3E-07	9.1E-09
A	Site Boundary	N	.67	2.0E-07	2.0E-07	1.9E-07	1.7E-08
A	Site Boundary	NNE	.60	2.2E-08	2.2E-08	2.2E-08	2.0E-09
A	Site Boundary	NE	.62	3.1E-08	3.1E-08	3.0E-08	2.1E-09
A	Site Boundary	ENE	.59	3.8E-09	3.8E-09	3.8E-09	5.4E-10
A	Site Boundary	E	.53	5.8E-09	5.8E-09	5.7E-09	5.3E-10
A	Site Boundary	ESE	.54	1.5E-08	1.5E-08	1.5E-08	1.7E-09
A	Site Boundary	SE	.65	2.1E-08	2.1E-08	2.1E-08	1.5E-09
A	Site Boundary	SSE	.81	7.3E-08	7.3E-08	7.2E-08	4.1E-09
A	Nearest Res	SW	1.30	9.1E-08	9.1E-08	9.0E-08	1.2E-09
A	Nearest Res	WSW	2.50	3.4E-08	3.4E-08	3.3E-08	1.2E-10
A	Nearest Res	W	1.00	9.2E-08	9.2E-08	9.1E-08	6.8E-10
A	Nearest Res	WNW	1.70	1.4E-07	1.4E-07	1.4E-07	5.6E-10
A	Nearest Res	NW	.90	1.4E-07	1.4E-07	1.4E-07	4.8E-09
A	Nearest Res	NNW	1.90	1.8E-07	1.8E-07	1.8E-07	2.4E-09
A	Nearest Res	N	3.00	7.0E-08	7.0E-08	6.8E-08	1.1E-09
A	Nearest Res	ENE	1.70	2.0E-08	2.0E-08	2.0E-08	3.3E-10
A	Nearest Res	E	1.80	1.2E-08	1.2E-08	1.2E-08	1.9E-10
A	Nearest Res	ESE	2.30	2.3E-08	2.3E-08	2.2E-08	3.3E-10
A	Nearest Cow	NNW	3.50	1.2E-07	1.2E-07	1.1E-07	7.5E-10
A	Nearest Garde	SW	1.30	9.1E-08	9.1E-08	9.0E-08	1.2E-09
A	Nearest Garde	WSW	1.90	5.2E-08	5.2E-08	5.1E-08	2.2E-10
A	Nearest Garde	WNW	2.40	7.9E-08	7.8E-08	7.7E-08	2.6E-10
A	Nearest Garde	NW	2.90	1.0E-07	1.0E-07	1.0E-07	5.1E-10
A	Nearest Garde	NNW	1.90	1.8E-07	1.8E-07	1.8E-07	2.4E-09
A	Nearest Garde	N	3.00	7.0E-08	7.0E-08	6.8E-08	1.1E-09
A	Nearest Garde	ESE	2.30	2.3E-08	2.3E-08	2.2E-08	3.3E-10
A	MAXIMUM CHI/Q	S	1.50	5.8E-08	5.8E-08	5.7E-08	1.3E-09
A	MAXIMUM CHI/Q	SSW	3.50	2.1E-08	2.1E-08	2.1E-08	1.3E-10
A	MAXIMUM CHI/Q	SW	1.50	9.8E-08	9.8E-08	9.6E-08	8.9E-10
A	MAXIMUM CHI/Q	WSW	1.50	7.4E-08	7.4E-08	7.3E-08	3.6E-10
A	MAXIMUM CHI/Q	W	1.00	9.2E-08	9.2E-08	9.1E-08	6.8E-10
A	MAXIMUM CHI/Q	WNW	1.50	1.7E-07	1.7E-07	1.7E-07	7.5E-10
A	MAXIMUM CHI/Q	NW	1.50	3.2E-07	3.2E-07	3.1E-07	2.4E-09
A	MAXIMUM CHI/Q	NNW	1.50	1.9E-07	1.9E-07	1.9E-07	4.0E-09
A	MAXIMUM CHI/Q	N	.50	2.0E-07	2.0E-07	2.0E-07	2.0E-08
A	MAXIMUM CHI/Q	NNE	1.50	5.9E-08	5.9E-08	5.8E-08	9.7E-10
A	MAXIMUM CHI/Q	NE	1.50	4.3E-08	4.3E-08	4.3E-08	7.2E-10
A	MAXIMUM CHI/Q	ENE	1.50	2.1E-08	2.1E-08	2.1E-08	4.0E-10
A	MAXIMUM CHI/Q	E	1.00	1.4E-08	1.4E-08	1.4E-08	4.6E-10
A	MAXIMUM CHI/Q	ESE	1.00	3.2E-08	3.2E-08	3.1E-08	1.3E-09
A	MAXIMUM CHI/Q	SE	1.50	3.6E-08	3.6E-08	3.6E-08	8.5E-10
A	MAXIMUM CHI/Q	SSE	.75	7.4E-08	7.4E-08	7.3E-08	4.5E-09

Atmospheric Diffusion Estimates

Elevated Releases

January-June 2002

ERP ELEVATED STACK RELEASES - JAN-JUN 2002
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.777E-09	2.077E-08	4.255E-08	5.371E-08	5.693E-08	4.978E-08	4.178E-08	3.505E-08	2.974E-08	3.581E-08	4.071E-08
SSW	2.774E-11	2.116E-09	1.194E-08	2.038E-08	2.484E-08	2.241E-08	1.903E-08	2.121E-08	2.237E-08	1.981E-08	1.782E-08
SW	6.200E-11	5.084E-09	2.851E-08	5.711E-08	8.395E-08	5.587E-08	3.994E-08	3.018E-08	2.380E-08	1.938E-08	1.620E-08
WSW	1.263E-11	8.489E-10	1.148E-08	3.263E-08	6.355E-08	4.084E-08	2.860E-08	2.133E-08	1.665E-08	1.346E-08	1.118E-08
W	2.578E-10	1.917E-08	6.753E-08	8.865E-08	8.496E-08	5.318E-08	3.678E-08	2.727E-08	2.126E-08	1.719E-08	1.430E-08
WNW	9.714E-10	9.697E-09	6.070E-08	1.173E-07	1.619E-07	9.934E-08	6.758E-08	5.170E-08	4.125E-08	3.274E-08	2.679E-08
NW	2.054E-08	3.010E-08	6.152E-08	1.117E-07	1.954E-07	1.175E-07	7.913E-08	5.890E-08	4.599E-08	3.647E-08	2.983E-08
NNW	3.326E-08	5.809E-08	8.636E-08	1.066E-07	1.375E-07	1.322E-07	1.208E-07	1.063E-07	9.308E-08	7.313E-08	5.936E-08
N	8.232E-08	1.087E-07	1.122E-07	9.478E-08	7.775E-08	6.593E-08	5.572E-08	4.651E-08	3.943E-08	3.393E-08	2.960E-08
NNE	1.119E-09	1.362E-08	3.671E-08	5.299E-08	6.277E-08	5.770E-08	4.987E-08	4.268E-08	3.673E-08	3.193E-08	2.807E-08
NE	2.658E-09	1.627E-08	3.141E-08	4.070E-08	4.527E-08	4.039E-08	3.421E-08	2.884E-08	2.452E-08	2.110E-08	1.840E-08
ENE	7.169E-11	4.762E-09	1.526E-08	2.248E-08	2.566E-08	2.262E-08	1.892E-08	1.579E-08	1.332E-08	1.139E-08	9.876E-09
E	9.288E-11	6.194E-09	1.377E-08	1.634E-08	1.658E-08	1.438E-08	1.208E-08	1.018E-08	8.687E-09	7.515E-09	6.590E-09
ESE	1.338E-10	8.497E-09	2.129E-08	2.738E-08	2.975E-08	2.666E-08	2.282E-08	1.945E-08	1.671E-08	1.451E-08	1.276E-08
SE	1.421E-09	1.090E-08	3.412E-08	5.214E-08	5.976E-08	5.259E-08	4.397E-08	3.668E-08	3.094E-08	2.646E-08	2.293E-08
SSE	1.551E-08	5.641E-08	8.215E-08	8.577E-08	7.977E-08	6.655E-08	5.446E-08	4.494E-08	3.764E-08	3.202E-08	2.765E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.660E-08	2.481E-08	1.615E-08	9.289E-09	6.507E-09	4.913E-09	3.830E-09	3.105E-09	2.609E-09	2.235E-09	1.939E-09
SSW	1.685E-08	1.511E-08	9.964E-09	5.839E-09	4.311E-09	3.290E-09	2.581E-09	2.105E-09	1.766E-09	1.513E-09	1.319E-09
SW	1.489E-08	1.177E-08	7.784E-09	4.574E-09	3.329E-09	2.582E-09	2.089E-09	1.702E-09	1.426E-09	1.221E-09	1.063E-09
WSW	9.940E-09	6.618E-09	4.731E-09	2.934E-09	1.984E-09	1.467E-09	1.149E-09	9.346E-10	7.823E-10	6.691E-10	5.821E-10
W	1.216E-08	6.863E-09	5.239E-09	3.840E-09	3.127E-09	2.359E-09	1.859E-09	1.521E-09	1.280E-09	1.100E-09	9.605E-10
WNW	2.271E-08	1.266E-08	8.584E-09	5.204E-09	3.568E-09	2.664E-09	2.105E-09	1.720E-09	1.439E-09	1.228E-09	1.067E-09
NW	2.528E-08	1.405E-08	9.532E-09	5.724E-09	3.867E-09	2.859E-09	2.261E-09	1.841E-09	1.540E-09	1.315E-09	1.143E-09
NNW	5.027E-08	2.769E-08	1.790E-08	1.023E-08	6.912E-09	5.108E-09	4.019E-09	3.282E-09	2.770E-09	2.371E-09	2.059E-09
N	2.621E-08	1.664E-08	1.372E-08	1.059E-08	8.459E-09	6.753E-09	5.294E-09	4.302E-09	3.593E-09	3.066E-09	2.662E-09
NNE	3.111E-08	4.248E-08	2.752E-08	1.578E-08	1.068E-08	7.907E-09	6.193E-09	5.042E-09	4.223E-09	3.613E-09	3.143E-09
NE	1.981E-08	2.521E-08	1.627E-08	9.277E-09	6.256E-09	4.620E-09	3.640E-09	2.974E-09	2.497E-09	2.132E-09	1.852E-09
ENE	1.023E-08	1.462E-08	9.672E-09	5.690E-09	3.914E-09	2.932E-09	2.435E-09	2.055E-09	1.726E-09	1.481E-09	1.292E-09
E	7.154E-09	1.141E-08	7.571E-09	4.470E-09	3.084E-09	2.314E-09	1.832E-09	1.505E-09	1.313E-09	1.157E-09	1.010E-09
ESE	1.347E-08	1.622E-08	1.074E-08	6.303E-09	4.323E-09	3.229E-09	2.545E-09	2.081E-09	1.749E-09	1.501E-09	1.309E-09
SE	2.012E-08	1.232E-08	9.523E-09	6.887E-09	5.076E-09	4.029E-09	3.350E-09	2.874E-09	2.414E-09	2.070E-09	1.804E-09
SSE	2.900E-08	2.948E-08	1.883E-08	1.060E-08	7.087E-09	5.198E-09	4.041E-09	3.269E-09	2.723E-09	2.318E-09	2.008E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	4.267E-08	5.304E-08	4.122E-08	3.357E-08	3.774E-08	2.358E-08	9.578E-09	4.905E-09	3.123E-09	2.236E-09
SSW	1.351E-08	2.277E-08	2.080E-08	2.107E-08	1.805E-08	1.321E-08	6.076E-09	3.279E-09	2.112E-09	1.516E-09
SW	3.601E-08	6.550E-08	4.028E-08	2.394E-08	1.666E-08	1.069E-08	4.734E-09	2.584E-09	1.707E-09	1.223E-09
WSW	1.852E-08	4.658E-08	2.896E-08	1.677E-08	1.140E-08	6.517E-09	2.911E-09	1.478E-09	9.377E-10	6.704E-10
W	6.617E-08	7.166E-08	3.735E-08	2.143E-08	1.437E-08	7.319E-09	3.834E-09	2.364E-09	1.526E-09	1.102E-09
WNW	7.454E-08	1.242E-07	6.970E-08	4.100E-08	2.704E-08	1.308E-08	5.228E-09	2.681E-09	1.723E-09	1.231E-09
NW	7.683E-08	1.422E-07	8.127E-08	4.605E-08	3.011E-08	1.454E-08	5.745E-09	2.889E-09	1.846E-09	1.318E-09
NNW	8.909E-08	1.283E-07	1.180E-07	8.925E-08	6.007E-08	2.836E-08	1.046E-08	5.154E-09	3.298E-09	2.374E-09
N	1.037E-07	7.628E-08	5.476E-08	3.936E-08	2.963E-08	1.747E-08	1.034E-08	6.624E-09	4.315E-09	3.073E-09
NNE	3.882E-08	5.834E-08	4.908E-08	3.660E-08	3.034E-08	3.331E-08	1.612E-08	7.961E-09	5.059E-09	3.620E-09
NE	3.218E-08	4.208E-08	3.371E-08	2.445E-08	1.973E-08	2.003E-08	9.488E-09	4.664E-09	2.983E-09	2.136E-09
ENE	1.613E-08	2.360E-08	1.866E-08	1.329E-08	1.045E-08	1.144E-08	5.786E-09	2.995E-09	2.038E-09	1.484E-09
E	1.323E-08	1.555E-08	1.194E-08	8.668E-09	7.073E-09	8.758E-09	4.543E-09	2.327E-09	1.525E-09	1.149E-09
ESE	2.115E-08	2.785E-08	2.249E-08	1.665E-08	1.354E-08	1.317E-08	6.408E-09	3.247E-09	2.087E-09	1.504E-09
SE	3.697E-08	5.488E-08	4.335E-08	3.088E-08	2.293E-08	1.281E-08	6.668E-09	4.037E-09	2.835E-09	2.073E-09
SSE	7.804E-08	7.523E-08	5.388E-08	3.758E-08	2.945E-08	2.464E-08	1.087E-08	5.239E-09	3.281E-09	2.323E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 2002
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.776E-09	2.076E-08	4.251E-08	5.365E-08	5.683E-08	4.965E-08	4.165E-08	3.492E-08	2.960E-08	3.561E-08	4.045E-08
SSW	2.773E-11	2.115E-09	1.193E-08	2.036E-08	2.479E-08	2.235E-08	1.896E-08	2.112E-08	2.226E-08	1.970E-08	1.770E-08
SW	6.198E-11	5.080E-09	2.848E-08	5.703E-08	8.377E-08	5.570E-08	3.978E-08	3.004E-08	2.367E-08	1.926E-08	1.608E-08
WSW	1.262E-11	8.485E-10	1.147E-08	3.258E-08	6.340E-08	4.072E-08	2.849E-08	2.123E-08	1.656E-08	1.338E-08	1.110E-08
W	2.577E-10	1.916E-08	6.745E-08	8.850E-08	8.474E-08	5.300E-08	3.661E-08	2.712E-08	2.112E-08	1.706E-08	1.417E-08
WNW	9.713E-10	9.693E-09	6.063E-08	1.172E-07	1.615E-07	9.903E-08	6.732E-08	5.146E-08	4.103E-08	3.253E-08	2.660E-08
NW	2.054E-08	3.008E-08	6.147E-08	1.115E-07	1.950E-07	1.172E-07	7.885E-08	5.865E-08	4.576E-08	3.627E-08	2.964E-08
NNW	3.325E-08	5.807E-08	8.630E-08	1.065E-07	1.373E-07	1.318E-07	1.204E-07	1.058E-07	9.265E-08	7.275E-08	5.901E-08
N	8.231E-08	1.087E-07	1.121E-07	9.469E-08	7.764E-08	6.580E-08	5.558E-08	4.637E-08	3.929E-08	3.379E-08	2.946E-08
NNE	1.119E-09	1.361E-08	3.667E-08	5.291E-08	6.263E-08	5.751E-08	4.967E-08	4.248E-08	3.653E-08	3.172E-08	2.787E-08
NE	2.657E-09	1.626E-08	3.138E-08	4.064E-08	4.514E-08	4.023E-08	3.404E-08	2.866E-08	2.435E-08	2.094E-08	1.823E-08
ENE	7.167E-11	4.760E-09	1.524E-08	2.244E-08	2.560E-08	2.255E-08	1.884E-08	1.571E-08	1.324E-08	1.131E-08	9.797E-09
E	9.285E-11	6.190E-09	1.376E-08	1.632E-08	1.655E-08	1.434E-08	1.204E-08	1.014E-08	8.649E-09	7.478E-09	6.554E-09
ESE	1.338E-10	8.493E-09	2.127E-08	2.735E-08	2.971E-08	2.660E-08	2.275E-08	1.938E-08	1.664E-08	1.445E-08	1.269E-08
SE	1.420E-09	1.089E-08	3.409E-08	5.209E-08	5.968E-08	5.249E-08	4.386E-08	3.657E-08	3.083E-08	2.635E-08	2.283E-08
SSE	1.551E-08	5.638E-08	8.209E-08	8.569E-08	7.965E-08	6.641E-08	5.432E-08	4.480E-08	3.750E-08	3.189E-08	2.752E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.632E-08	2.450E-08	1.588E-08	9.051E-09	6.279E-09	4.695E-09	3.626E-09	2.913E-09	2.425E-09	2.057E-09	1.768E-09
SSW	1.672E-08	1.490E-08	9.777E-09	5.671E-09	4.140E-09	3.125E-09	2.426E-09	1.958E-09	1.625E-09	1.378E-09	1.188E-09
SW	1.477E-08	1.161E-08	7.648E-09	4.453E-09	3.210E-09	2.466E-09	1.977E-09	1.595E-09	1.324E-09	1.123E-09	9.686E-10
WSW	9.864E-09	6.540E-09	4.655E-09	2.863E-09	1.919E-09	1.408E-09	1.093E-09	8.824E-10	7.326E-10	6.215E-10	5.363E-10
W	1.204E-08	6.754E-09	5.119E-09	3.691E-09	2.953E-09	2.195E-09	1.704E-09	1.374E-09	1.139E-09	9.644E-10	8.300E-10
WNW	2.253E-08	1.250E-08	8.436E-09	5.064E-09	3.438E-09	2.541E-09	1.989E-09	1.608E-09	1.333E-09	1.127E-09	9.688E-10
NW	2.511E-08	1.390E-08	9.400E-09	5.606E-09	3.761E-09	2.762E-09	2.170E-09	1.755E-09	1.457E-09	1.237E-09	1.068E-09
NNW	4.994E-08	2.742E-08	1.767E-08	1.003E-08	6.732E-09	4.943E-09	3.864E-09	3.135E-09	2.628E-09	2.236E-09	1.929E-09
N	2.607E-08	1.651E-08	1.357E-08	1.040E-08	8.254E-09	6.544E-09	5.098E-09	4.116E-09	3.416E-09	2.897E-09	2.500E-09
NNE	3.087E-08	4.198E-08	2.709E-08	1.541E-08	1.035E-08	7.600E-09	5.906E-09	4.771E-09	3.964E-09	3.365E-09	2.905E-09
NE	1.962E-08	2.485E-08	1.596E-08	9.020E-09	6.028E-09	4.411E-09	3.445E-09	2.789E-09	2.321E-09	1.964E-09	1.691E-09
ENE	1.013E-08	1.445E-08	9.529E-09	5.566E-09	3.802E-09	2.829E-09	2.333E-09	1.956E-09	1.632E-09	1.391E-09	1.205E-09
E	7.110E-09	1.131E-08	7.478E-09	4.388E-09	3.008E-09	2.244E-09	1.765E-09	1.441E-09	1.249E-09	1.094E-09	9.489E-10
ESE	1.339E-08	1.606E-08	1.059E-08	6.178E-09	4.209E-09	3.122E-09	2.444E-09	1.985E-09	1.657E-09	1.413E-09	1.224E-09
SE	2.001E-08	1.222E-08	9.418E-09	6.763E-09	4.949E-09	3.897E-09	3.214E-09	2.732E-09	2.277E-09	1.938E-09	1.676E-09
SSE	2.885E-08	2.924E-08	1.863E-08	1.042E-08	6.933E-09	5.057E-09	3.910E-09	3.145E-09	2.605E-09	2.206E-09	1.900E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	4.263E-08	5.293E-08	4.109E-08	3.341E-08	3.749E-08	2.330E-08	9.337E-09	4.690E-09	2.931E-09	2.059E-09
SSW	1.349E-08	2.272E-08	2.073E-08	2.096E-08	1.793E-08	1.303E-08	5.903E-09	3.116E-09	1.965E-09	1.381E-09
SW	3.597E-08	6.535E-08	4.013E-08	2.381E-08	1.654E-08	1.055E-08	4.611E-09	2.469E-09	1.601E-09	1.125E-09
WSW	1.849E-08	4.647E-08	2.885E-08	1.668E-08	1.132E-08	6.441E-09	2.842E-09	1.419E-09	8.856E-10	6.228E-10
W	6.608E-08	7.147E-08	3.719E-08	2.129E-08	1.424E-08	7.202E-09	3.680E-09	2.201E-09	1.379E-09	9.664E-10
WNW	7.444E-08	1.239E-07	6.943E-08	4.077E-08	2.685E-08	1.292E-08	5.090E-09	2.559E-09	1.612E-09	1.129E-09
NW	7.675E-08	1.419E-07	8.099E-08	4.583E-08	2.993E-08	1.439E-08	5.629E-09	2.791E-09	1.760E-09	1.240E-09
NNW	8.902E-08	1.280E-07	1.176E-07	8.884E-08	5.972E-08	2.809E-08	1.026E-08	4.989E-09	3.150E-09	2.239E-09
N	1.036E-07	7.617E-08	5.462E-08	3.922E-08	2.949E-08	1.732E-08	1.015E-08	6.422E-09	4.130E-09	2.904E-09
NNE	3.877E-08	5.819E-08	4.888E-08	3.640E-08	3.012E-08	3.289E-08	1.575E-08	7.655E-09	4.788E-09	3.372E-09
NE	3.214E-08	4.196E-08	3.354E-08	2.428E-08	1.955E-08	1.974E-08	9.233E-09	4.456E-09	2.798E-09	1.969E-09
ENE	1.611E-08	2.354E-08	1.858E-08	1.321E-08	1.037E-08	1.130E-08	5.663E-09	2.890E-09	1.940E-09	1.393E-09
E	1.321E-08	1.552E-08	1.190E-08	8.630E-09	7.034E-09	8.672E-09	4.462E-09	2.256E-09	1.461E-09	1.086E-09
ESE	2.114E-08	2.780E-08	2.243E-08	1.659E-08	1.347E-08	1.304E-08	6.284E-09	3.140E-09	1.991E-09	1.415E-09
SE	3.693E-08	5.480E-08	4.325E-08	3.077E-08	2.283E-08	1.271E-08	6.547E-09	3.904E-09	2.696E-09	1.942E-09
SSE	7.798E-08	7.511E-08	5.374E-08	3.745E-08	2.931E-08	2.444E-08	1.070E-08	5.098E-09	3.158E-09	2.211E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 2002
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.777E-09	2.060E-08	4.200E-08	5.317E-08	5.613E-08	4.876E-08	4.068E-08	3.394E-08	2.864E-08	3.454E-08	3.935E-08
SSW	2.774E-11	2.103E-09	1.189E-08	2.032E-08	2.458E-08	2.201E-08	1.855E-08	2.060E-08	2.169E-08	1.914E-08	1.717E-08
SW	6.200E-11	5.042E-09	2.830E-08	5.687E-08	8.284E-08	5.464E-08	3.879E-08	2.915E-08	2.287E-08	1.855E-08	1.545E-08
WSW	1.263E-11	8.430E-10	1.145E-08	3.255E-08	6.291E-08	4.018E-08	2.800E-08	2.080E-08	1.618E-08	1.304E-08	1.081E-08
W	2.577E-10	1.898E-08	6.693E-08	8.753E-08	8.351E-08	5.200E-08	3.582E-08	2.647E-08	2.058E-08	1.660E-08	1.378E-08
WNW	9.714E-10	9.638E-09	6.045E-08	1.164E-07	1.596E-07	9.730E-08	6.586E-08	5.021E-08	3.996E-08	3.157E-08	2.570E-08
NW	2.054E-08	2.983E-08	6.077E-08	1.106E-07	1.930E-07	1.153E-07	7.724E-08	5.731E-08	4.463E-08	3.524E-08	2.868E-08
NNW	3.326E-08	5.757E-08	8.493E-08	1.053E-07	1.357E-07	1.298E-07	1.184E-07	1.040E-07	9.098E-08	7.116E-08	5.746E-08
N	8.232E-08	1.077E-07	1.100E-07	9.280E-08	7.604E-08	6.432E-08	5.418E-08	4.508E-08	3.810E-08	3.269E-08	2.845E-08
NNE	1.119E-09	1.351E-08	3.632E-08	5.259E-08	6.200E-08	5.663E-08	4.866E-08	4.143E-08	3.550E-08	3.073E-08	2.691E-08
NE	2.657E-09	1.613E-08	3.100E-08	4.030E-08	4.463E-08	3.954E-08	3.326E-08	2.786E-08	2.356E-08	2.017E-08	1.750E-08
ENE	7.169E-11	4.723E-09	1.511E-08	2.232E-08	2.533E-08	2.216E-08	1.839E-08	1.524E-08	1.277E-08	1.086E-08	9.364E-09
E	9.287E-11	6.140E-09	1.356E-08	1.612E-08	1.631E-08	1.407E-08	1.176E-08	9.858E-09	8.373E-09	7.216E-09	6.306E-09
ESE	1.338E-10	8.425E-09	2.102E-08	2.710E-08	2.934E-08	2.615E-08	2.227E-08	1.890E-08	1.617E-08	1.400E-08	1.226E-08
SE	1.420E-09	1.082E-08	3.389E-08	5.192E-08	5.912E-08	5.163E-08	4.285E-08	3.552E-08	2.979E-08	2.534E-08	2.186E-08
SSE	1.551E-08	5.591E-08	8.081E-08	8.452E-08	7.838E-08	6.502E-08	5.289E-08	4.339E-08	3.615E-08	3.061E-08	2.632E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.530E-08	2.349E-08	1.479E-08	7.946E-09	5.155E-09	3.659E-09	2.727E-09	2.123E-09	1.721E-09	1.430E-09	1.206E-09
SSW	1.623E-08	1.438E-08	9.172E-09	5.011E-09	3.432E-09	2.512E-09	1.899E-09	1.498E-09	1.219E-09	1.015E-09	8.606E-10
SW	1.419E-08	1.111E-08	7.113E-09	3.904E-09	2.630E-09	1.910E-09	1.486E-09	1.170E-09	9.496E-10	7.893E-10	6.684E-10
WSW	9.596E-09	6.240E-09	4.319E-09	2.530E-09	1.635E-09	1.163E-09	8.796E-10	6.937E-10	5.643E-10	4.700E-10	3.988E-10
W	1.170E-08	6.551E-09	4.943E-09	3.409E-09	2.597E-09	1.882E-09	1.431E-09	1.133E-09	9.252E-10	7.728E-10	6.573E-10
WNW	2.166E-08	1.170E-08	7.671E-09	4.333E-09	2.742E-09	1.938E-09	1.470E-09	1.159E-09	9.388E-10	7.775E-10	6.562E-10
NW	2.418E-08	1.302E-08	8.545E-09	4.816E-09	3.077E-09	2.171E-09	1.654E-09	1.304E-09	1.058E-09	8.795E-10	7.448E-10
NNW	4.840E-08	2.583E-08	1.613E-08	8.580E-09	5.342E-09	3.685E-09	2.741E-09	2.147E-09	1.752E-09	1.455E-09	1.228E-09
N	2.513E-08	1.581E-08	1.302E-08	1.004E-08	7.807E-09	5.935E-09	4.511E-09	3.566E-09	2.903E-09	2.420E-09	2.055E-09
NNE	2.988E-08	4.080E-08	2.553E-08	1.379E-08	8.831E-09	6.238E-09	4.689E-09	3.678E-09	2.977E-09	2.468E-09	2.085E-09
NE	1.886E-08	2.401E-08	1.497E-08	8.037E-09	5.116E-09	3.597E-09	2.726E-09	2.155E-09	1.757E-09	1.459E-09	1.235E-09
ENE	9.687E-09	1.399E-08	8.956E-09	4.925E-09	3.136E-09	2.200E-09	1.724E-09	1.396E-09	1.135E-09	9.456E-10	8.023E-10
E	6.859E-09	1.103E-08	7.079E-09	3.896E-09	2.476E-09	1.735E-09	1.293E-09	1.006E-09	8.352E-10	7.056E-10	5.969E-10
ESE	1.296E-08	1.566E-08	1.003E-08	5.496E-09	3.482E-09	2.432E-09	1.807E-09	1.402E-09	1.123E-09	9.217E-10	7.710E-10
SE	1.910E-08	1.151E-08	8.830E-09	6.347E-09	4.647E-09	3.673E-09	3.045E-09	2.596E-09	2.125E-09	1.780E-09	1.518E-09
SSE	2.761E-08	2.792E-08	1.723E-08	9.164E-09	5.844E-09	4.117E-09	3.088E-09	2.419E-09	1.956E-09	1.621E-09	1.369E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	4.221E-08	5.220E-08	4.014E-08	3.240E-08	3.642E-08	2.225E-08	8.226E-09	3.685E-09	2.142E-09	1.433E-09
SSW	1.346E-08	2.249E-08	2.029E-08	2.041E-08	1.741E-08	1.248E-08	5.234E-09	2.512E-09	1.506E-09	1.018E-09
SW	3.583E-08	6.454E-08	3.916E-08	2.302E-08	1.590E-08	1.002E-08	4.051E-09	1.933E-09	1.176E-09	7.920E-10
WSW	1.847E-08	4.606E-08	2.837E-08	1.630E-08	1.102E-08	6.132E-09	2.530E-09	1.175E-09	6.975E-10	4.716E-10
W	6.543E-08	7.040E-08	3.640E-08	2.075E-08	1.385E-08	6.981E-09	3.389E-09	1.892E-09	1.139E-09	7.752E-10
WNW	7.401E-08	1.223E-07	6.799E-08	3.969E-08	2.594E-08	1.212E-08	4.368E-09	1.965E-09	1.164E-09	7.804E-10
NW	7.604E-08	1.401E-07	7.941E-08	4.467E-08	2.896E-08	1.351E-08	4.872E-09	2.206E-09	1.310E-09	8.826E-10
NNW	8.791E-08	1.263E-07	1.157E-07	8.715E-08	5.816E-08	2.653E-08	8.818E-09	3.749E-09	2.166E-09	1.459E-09
N	1.018E-07	7.455E-08	5.324E-08	3.803E-08	2.848E-08	1.664E-08	9.708E-09	5.865E-09	3.583E-09	2.428E-09
NNE	3.848E-08	5.752E-08	4.790E-08	3.538E-08	2.914E-08	3.159E-08	1.420E-08	6.310E-09	3.700E-09	2.477E-09
NE	3.183E-08	4.141E-08	3.278E-08	2.350E-08	1.880E-08	1.885E-08	8.281E-09	3.654E-09	2.166E-09	1.464E-09
ENE	1.601E-08	2.325E-08	1.813E-08	1.275E-08	9.926E-09	1.079E-08	5.026E-09	2.259E-09	1.390E-09	9.488E-10
E	1.305E-08	1.527E-08	1.161E-08	8.356E-09	6.780E-09	8.348E-09	3.972E-09	1.756E-09	1.023E-09	7.038E-10
ESE	2.092E-08	2.742E-08	2.195E-08	1.612E-08	1.304E-08	1.256E-08	5.608E-09	2.462E-09	1.412E-09	9.256E-10
SE	3.678E-08	5.419E-08	4.226E-08	2.974E-08	2.187E-08	1.200E-08	6.143E-09	3.682E-09	2.545E-09	1.785E-09
SSE	7.693E-08	7.381E-08	5.233E-08	3.611E-08	2.807E-08	2.310E-08	9.482E-09	4.166E-09	2.434E-09	1.627E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	2.910E-09	2.724E-09	2.842E-09	2.266E-09	1.231E-09	7.880E-10	5.445E-10	3.956E-10	2.979E-10	2.472E-10	2.197E-10
SSW	3.259E-10	5.517E-10	8.930E-10	8.604E-10	5.198E-10	3.450E-10	2.425E-10	1.778E-10	1.693E-10	1.280E-10	1.001E-10
SW	5.826E-10	6.884E-10	9.025E-10	8.057E-10	8.904E-10	4.828E-10	2.983E-10	2.022E-10	1.459E-10	1.103E-10	8.628E-11
WSW	1.499E-10	1.978E-10	2.803E-10	5.548E-10	2.921E-10	1.585E-10	9.796E-11	6.640E-11	4.793E-11	3.622E-11	2.834E-11
W	2.862E-10	1.398E-09	1.230E-09	7.694E-10	3.730E-10	1.992E-10	1.221E-10	8.245E-11	5.949E-11	4.507E-11	3.548E-11
WNW	7.051E-10	7.218E-10	2.121E-09	1.565E-09	9.361E-10	4.751E-10	2.859E-10	1.940E-10	1.498E-10	1.197E-10	1.014E-10
NW	3.372E-09	2.685E-09	2.197E-09	2.583E-09	1.489E-09	7.421E-10	4.413E-10	2.958E-10	2.168E-10	1.707E-10	1.420E-10
NNW	7.807E-09	6.139E-09	4.904E-09	3.206E-09	2.364E-09	1.267E-09	7.861E-10	6.296E-10	4.641E-10	3.676E-10	3.078E-10
N	1.396E-08	1.077E-08	8.298E-09	5.237E-09	2.357E-09	1.396E-09	9.259E-10	6.583E-10	4.904E-10	3.781E-10	2.993E-10
NNE	1.434E-09	1.587E-09	1.972E-09	1.720E-09	9.863E-10	6.436E-10	4.488E-10	3.276E-10	2.473E-10	1.917E-10	1.518E-10
NE	1.799E-09	1.671E-09	1.728E-09	1.370E-09	7.417E-10	4.743E-10	3.275E-10	2.378E-10	1.791E-10	1.387E-10	1.098E-10
ENE	7.126E-10	7.670E-10	9.292E-10	8.010E-10	4.563E-10	2.971E-10	2.070E-10	1.510E-10	1.140E-10	8.834E-11	6.995E-11
E	8.263E-10	7.471E-10	7.459E-10	5.788E-10	3.088E-10	1.964E-10	1.353E-10	9.811E-11	7.383E-11	5.716E-11	4.526E-11
ESE	1.260E-09	1.246E-09	1.386E-09	1.145E-09	6.358E-10	4.104E-10	2.847E-10	2.072E-10	1.562E-10	1.210E-10	9.584E-11
SE	1.228E-09	1.755E-09	2.610E-09	2.445E-09	1.457E-09	9.626E-10	6.753E-10	4.944E-10	3.738E-10	2.900E-10	2.296E-10
SSE	7.352E-09	6.218E-09	5.637E-09	4.095E-09	2.083E-09	1.301E-09	8.878E-10	6.408E-10	4.811E-10	3.721E-10	2.946E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	1.767E-10	1.391E-10	9.760E-11	5.790E-11	3.686E-11	2.510E-11	1.796E-11	1.346E-11	1.052E-11	8.381E-12	6.841E-12
SSW	8.067E-11	6.330E-11	4.429E-11	2.615E-11	1.672E-11	1.140E-11	8.166E-12	6.132E-12	4.781E-12	3.819E-12	3.117E-12
SW	6.937E-11	5.248E-11	3.643E-11	2.139E-11	1.355E-11	9.676E-12	6.790E-12	5.098E-12	3.964E-12	3.166E-12	2.585E-12
WSW	2.553E-11	2.881E-11	2.191E-11	1.285E-11	7.774E-12	5.213E-12	3.756E-12	2.820E-12	2.193E-12	1.752E-12	1.430E-12
W	2.881E-11	1.357E-11	2.342E-11	1.541E-11	8.810E-12	5.907E-12	4.232E-12	3.178E-12	2.471E-12	1.974E-12	1.611E-12
WNW	9.024E-11	5.959E-11	4.429E-11	2.747E-11	1.635E-11	1.070E-11	7.678E-12	5.766E-12	4.496E-12	3.591E-12	2.931E-12
NW	1.239E-10	7.711E-11	5.592E-11	3.444E-11	2.097E-11	1.405E-11	9.997E-12	7.507E-12	5.837E-12	4.662E-12	3.806E-12
NNW	2.700E-10	1.709E-10	1.248E-10	7.672E-11	4.949E-11	3.320E-11	2.209E-11	1.634E-11	1.266E-11	1.012E-11	8.259E-12
N	2.420E-10	1.158E-10	7.141E-11	3.860E-11	8.068E-11	4.924E-11	3.522E-11	2.645E-11	2.057E-11	1.643E-11	1.341E-11
NNE	1.224E-10	2.229E-10	1.375E-10	7.102E-11	4.329E-11	2.898E-11	2.072E-11	1.551E-11	1.204E-11	9.599E-12	7.824E-12
NE	8.857E-11	1.240E-10	7.703E-11	4.014E-11	2.453E-11	1.641E-11	1.191E-11	8.909E-12	6.928E-12	5.575E-12	4.551E-12
ENE	5.638E-11	6.688E-11	4.894E-11	2.999E-11	1.918E-11	1.274E-11	8.965E-12	6.255E-12	4.866E-12	3.889E-12	3.177E-12
E	3.651E-11	5.384E-11	4.082E-11	2.570E-11	1.655E-11	1.098E-11	7.714E-12	5.653E-12	4.304E-12	3.134E-12	2.556E-12
ESE	7.728E-11	1.003E-10	7.456E-11	4.624E-11	2.967E-11	1.969E-11	1.384E-11	1.016E-11	7.747E-12	6.091E-12	4.905E-12
SE	1.850E-10	8.769E-11	5.350E-11	2.820E-11	1.722E-11	1.187E-11	8.890E-12	1.793E-11	1.375E-11	1.087E-11	8.799E-12
SSE	2.378E-10	2.868E-10	1.741E-10	8.831E-11	5.352E-11	3.589E-11	2.572E-11	1.932E-11	1.502E-11	1.200E-11	9.796E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.560E-09	1.264E-09	5.498E-10	3.065E-10	2.119E-10	1.290E-10	5.737E-11	2.538E-11	1.362E-11	8.445E-12
SSW	8.027E-10	5.178E-10	2.440E-10	1.560E-10	1.012E-10	5.871E-11	2.599E-11	1.152E-11	6.199E-12	3.844E-12
SW	8.119E-10	6.904E-10	3.090E-10	1.484E-10	8.713E-11	4.910E-11	2.125E-11	9.555E-12	5.149E-12	3.187E-12
WSW	3.840E-10	2.911E-10	1.015E-10	4.874E-11	2.963E-11	2.501E-11	1.261E-11	5.313E-12	2.848E-12	1.763E-12
W	1.063E-09	3.838E-10	1.268E-10	6.056E-11	3.585E-11	2.134E-11	1.426E-11	6.011E-12	3.210E-12	1.987E-12
WNW	1.563E-09	8.711E-10	2.996E-10	1.509E-10	1.027E-10	5.960E-11	2.626E-11	1.100E-11	5.828E-12	3.615E-12
NW	2.477E-09	1.400E-09	4.633E-10	2.218E-10	1.438E-10	7.808E-11	3.323E-11	1.428E-11	7.582E-12	4.693E-12
NNW	4.424E-09	2.063E-09	8.517E-10	4.746E-10	3.115E-10	1.724E-10	7.531E-11	3.310E-11	1.658E-11	1.018E-11
N	7.488E-09	2.570E-09	9.442E-10	4.956E-10	3.014E-10	1.241E-10	6.459E-11	5.202E-11	2.672E-11	1.654E-11
NNE	1.774E-09	9.969E-10	4.523E-10	2.491E-10	1.527E-10	1.626E-10	7.346E-11	2.949E-11	1.568E-11	9.664E-12
NE	1.557E-09	7.625E-10	3.308E-10	1.805E-10	1.105E-10	9.527E-11	4.140E-11	1.677E-11	9.011E-12	5.597E-12
ENE	8.362E-10	4.622E-10	2.086E-10	1.148E-10	7.037E-11	5.657E-11	2.940E-11	1.295E-11	6.500E-12	3.915E-12
E	6.719E-10	3.188E-10	1.367E-10	7.442E-11	4.554E-11	4.420E-11	2.500E-11	1.116E-11	5.728E-12	3.267E-12
ESE	1.247E-09	6.487E-10	2.872E-10	1.574E-10	9.643E-11	8.374E-11	4.517E-11	2.001E-11	1.029E-11	6.142E-12
SE	2.347E-09	1.457E-09	6.796E-10	3.763E-10	2.310E-10	9.412E-11	2.894E-11	1.210E-11	1.375E-11	1.095E-11
SSE	5.081E-09	2.182E-09	8.992E-10	4.852E-10	2.965E-10	2.258E-10	9.192E-11	3.653E-11	1.951E-11	1.208E-11

ERP ELEVATED STACK RELEASES - JAN-JUN 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	4.5E-08	4.5E-08	4.5E-08	2.7E-09
A	Site Boundary	SSW	.82	1.5E-08	1.5E-08	1.5E-08	9.2E-10
A	Site Boundary	SW	.97	5.5E-08	5.4E-08	5.4E-08	8.3E-10
A	Site Boundary	WSW	.93	2.6E-08	2.6E-08	2.6E-08	4.1E-10
A	Site Boundary	W	.91	8.4E-08	8.4E-08	8.3E-08	9.0E-10
A	Site Boundary	WNW	.94	1.0E-07	1.0E-07	1.0E-07	1.8E-09
A	Site Boundary	NW	.81	7.3E-08	7.3E-08	7.2E-08	2.0E-09
A	Site Boundary	NNW	.69	7.7E-08	7.7E-08	7.6E-08	5.1E-09
A	Site Boundary	N	.67	1.1E-07	1.1E-07	1.1E-07	8.9E-09
A	Site Boundary	NNE	.60	2.1E-08	2.1E-08	2.1E-08	1.7E-09
A	Site Boundary	NE	.62	2.3E-08	2.3E-08	2.2E-08	1.7E-09
A	Site Boundary	ENE	.59	7.6E-09	7.6E-09	7.5E-09	8.1E-10
A	Site Boundary	E	.53	7.0E-09	6.9E-09	6.9E-09	7.4E-10
A	Site Boundary	ESE	.54	1.0E-08	1.0E-08	1.0E-08	1.3E-09
A	Site Boundary	SE	.65	2.2E-08	2.2E-08	2.2E-08	2.2E-09
A	Site Boundary	SSE	.81	8.4E-08	8.3E-08	8.2E-08	5.2E-09
A	Nearest Res	SW	1.30	7.8E-08	7.8E-08	7.8E-08	1.2E-09
A	Nearest Res	WSW	2.50	2.9E-08	2.8E-08	2.8E-08	9.8E-11
A	Nearest Res	W	1.00	8.9E-08	8.8E-08	8.8E-08	7.7E-10
A	Nearest Res	WNW	1.70	1.3E-07	1.3E-07	1.3E-07	7.0E-10
A	Nearest Res	NW	.90	9.0E-08	9.0E-08	8.9E-08	3.0E-09
A	Nearest Res	NNW	1.90	1.3E-07	1.3E-07	1.3E-07	1.4E-09
A	Nearest Res	N	3.00	4.7E-08	4.6E-08	4.5E-08	6.6E-10
A	Nearest Res	ENE	1.70	2.5E-08	2.5E-08	2.4E-08	3.8E-10
A	Nearest Res	E	1.80	1.5E-08	1.5E-08	1.5E-08	2.3E-10
A	Nearest Res	ESE	2.30	2.4E-08	2.4E-08	2.4E-08	3.3E-10
A	Nearest Cow	NNW	3.50	9.3E-08	9.3E-08	9.1E-08	4.6E-10
A	Nearest Garde	SW	1.30	7.8E-08	7.8E-08	7.8E-08	1.2E-09
A	Nearest Garde	WSW	1.90	4.4E-08	4.4E-08	4.4E-08	1.8E-10
A	Nearest Garde	WNW	2.40	7.3E-08	7.2E-08	7.1E-08	3.1E-10
A	Nearest Garde	NW	2.90	6.2E-08	6.2E-08	6.1E-08	3.2E-10
A	Nearest Garde	NNW	1.90	1.3E-07	1.3E-07	1.3E-07	1.4E-09
A	Nearest Garde	N	3.00	4.7E-08	4.6E-08	4.5E-08	6.6E-10
A	Nearest Garde	ESE	2.30	2.4E-08	2.4E-08	2.4E-08	3.3E-10
A	MAXIMUM CHI/Q	S	1.50	5.7E-08	5.7E-08	5.6E-08	1.2E-09
A	MAXIMUM CHI/Q	SSW	1.50	2.5E-08	2.5E-08	2.5E-08	5.2E-10
A	MAXIMUM CHI/Q	SW	1.50	8.4E-08	8.4E-08	8.3E-08	8.9E-10
A	MAXIMUM CHI/Q	WSW	1.50	6.4E-08	6.3E-08	6.3E-08	2.9E-10
A	MAXIMUM CHI/Q	W	1.00	8.9E-08	8.9E-08	8.8E-08	7.7E-10
A	MAXIMUM CHI/Q	WNW	1.50	1.6E-07	1.6E-07	1.6E-07	9.4E-10
A	MAXIMUM CHI/Q	NW	1.50	2.0E-07	2.0E-07	1.9E-07	1.5E-09
A	MAXIMUM CHI/Q	NNW	1.50	1.4E-07	1.4E-07	1.4E-07	2.4E-09
A	MAXIMUM CHI/Q	N	.75	1.1E-07	1.1E-07	1.1E-07	8.3E-09
A	MAXIMUM CHI/Q	NNE	1.50	6.3E-08	6.3E-08	6.2E-08	9.9E-10
A	MAXIMUM CHI/Q	NE	1.50	4.5E-08	4.5E-08	4.5E-08	7.4E-10
A	MAXIMUM CHI/Q	ENE	1.50	2.6E-08	2.6E-08	2.5E-08	4.6E-10
A	MAXIMUM CHI/Q	E	1.50	1.7E-08	1.7E-08	1.6E-08	3.1E-10
A	MAXIMUM CHI/Q	ESE	1.50	3.0E-08	3.0E-08	2.9E-08	6.4E-10
A	MAXIMUM CHI/Q	SE	1.50	6.0E-08	6.0E-08	5.9E-08	1.5E-09
A	MAXIMUM CHI/Q	SSE	1.00	8.6E-08	8.6E-08	8.5E-08	4.1E-09

Atmospheric Diffusion Estimates

Elevated Releases

July-September 2002

ERP ELEVATED STACK RELEASES - JUL-SEP 2002
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.684E-09	2.584E-08	4.513E-08	4.659E-08	4.367E-08	3.739E-08	3.132E-08	2.634E-08	2.241E-08	2.757E-08	3.202E-08
SSW	1.520E-09	1.454E-08	2.632E-08	3.087E-08	3.354E-08	3.065E-08	2.663E-08	3.133E-08	3.490E-08	3.160E-08	2.887E-08
SW	6.775E-11	5.013E-09	2.467E-08	5.469E-08	1.037E-07	7.293E-08	5.388E-08	4.163E-08	3.335E-08	2.748E-08	2.318E-08
WSW	1.644E-10	1.130E-08	4.262E-08	8.710E-08	1.724E-07	1.127E-07	7.978E-08	5.990E-08	4.701E-08	3.815E-08	3.178E-08
W	7.600E-10	3.897E-08	1.107E-07	1.366E-07	1.319E-07	8.326E-08	5.773E-08	4.276E-08	3.323E-08	2.677E-08	2.216E-08
WNW	1.231E-08	4.953E-08	2.011E-07	3.429E-07	4.364E-07	2.654E-07	1.794E-07	1.360E-07	1.075E-07	8.492E-08	6.920E-08
NW	2.954E-08	1.256E-07	2.703E-07	4.457E-07	6.845E-07	3.984E-07	2.625E-07	1.911E-07	1.467E-07	1.153E-07	9.357E-08
NNW	2.606E-08	1.031E-07	1.569E-07	1.810E-07	2.200E-07	2.082E-07	1.907E-07	1.716E-07	1.564E-07	1.235E-07	1.008E-07
N	4.756E-08	1.401E-07	1.726E-07	1.583E-07	1.388E-07	1.201E-07	1.019E-07	8.503E-08	7.193E-08	6.173E-08	5.369E-08
NNE	2.580E-09	1.734E-08	3.303E-08	4.242E-08	4.982E-08	4.730E-08	4.212E-08	3.696E-08	3.247E-08	2.872E-08	2.564E-08
NE	2.715E-09	8.015E-09	1.329E-08	1.939E-08	2.365E-08	2.172E-08	1.868E-08	1.592E-08	1.367E-08	1.186E-08	1.042E-08
ENE	3.387E-11	2.551E-09	7.772E-09	1.116E-08	1.246E-08	1.086E-08	9.028E-09	7.513E-09	6.337E-09	5.429E-09	4.722E-09
E	6.278E-11	4.029E-09	8.016E-09	9.124E-09	9.384E-09	8.266E-09	6.988E-09	5.897E-09	5.027E-09	4.341E-09	3.798E-09
ESE	1.342E-16	1.798E-10	3.402E-09	7.312E-09	1.058E-08	1.030E-08	9.138E-09	7.932E-09	6.886E-09	6.022E-09	5.316E-09
SE	3.618E-16	3.721E-10	6.242E-09	1.253E-08	1.709E-08	1.636E-08	1.445E-08	1.256E-08	1.094E-08	9.608E-09	8.516E-09
SSE	3.072E-09	2.910E-08	4.877E-08	5.121E-08	4.753E-08	3.973E-08	3.259E-08	2.694E-08	2.261E-08	1.927E-08	1.667E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.885E-08	1.901E-08	1.231E-08	7.033E-09	4.844E-09	3.610E-09	2.808E-09	2.272E-09	1.899E-09	1.621E-09	1.404E-09
SSW	2.759E-08	2.253E-08	1.473E-08	8.531E-09	6.083E-09	4.581E-09	3.580E-09	2.909E-09	2.434E-09	2.079E-09	1.807E-09
SW	2.161E-08	1.709E-08	1.133E-08	6.668E-09	4.823E-09	3.725E-09	3.014E-09	2.455E-09	2.057E-09	1.761E-09	1.533E-09
WSW	2.832E-08	1.898E-08	1.364E-08	8.552E-09	5.796E-09	4.295E-09	3.367E-09	2.741E-09	2.296E-09	1.964E-09	1.709E-09
W	1.876E-08	1.035E-08	7.470E-09	4.931E-09	3.691E-09	2.750E-09	2.152E-09	1.751E-09	1.465E-09	1.253E-09	1.090E-09
WNW	5.831E-08	3.166E-08	2.103E-08	1.235E-08	8.344E-09	6.160E-09	4.816E-09	3.905E-09	3.251E-09	2.766E-09	2.395E-09
NW	7.858E-08	4.231E-08	2.816E-08	1.659E-08	1.114E-08	8.198E-09	6.457E-09	5.249E-09	4.377E-09	3.731E-09	3.236E-09
NNW	8.620E-08	4.940E-08	3.220E-08	1.862E-08	1.269E-08	9.441E-09	7.495E-09	6.167E-09	5.254E-09	4.519E-09	3.936E-09
N	4.739E-08	2.966E-08	2.397E-08	1.823E-08	1.483E-08	1.212E-08	9.534E-09	7.763E-09	6.485E-09	5.536E-09	4.807E-09
NNE	2.997E-08	4.321E-08	2.798E-08	1.603E-08	1.084E-08	8.019E-09	6.276E-09	5.105E-09	4.271E-09	3.651E-09	3.175E-09
NE	1.165E-08	1.917E-08	1.252E-08	7.257E-09	4.947E-09	3.683E-09	2.934E-09	2.418E-09	2.051E-09	1.758E-09	1.532E-09
ENE	5.003E-09	6.707E-09	4.389E-09	2.542E-09	1.729E-09	1.284E-09	1.036E-09	8.582E-10	7.176E-10	6.132E-10	5.329E-10
E	4.048E-09	5.046E-09	3.289E-09	1.893E-09	1.283E-09	9.492E-10	7.428E-10	6.040E-10	5.127E-10	4.423E-10	3.838E-10
ESE	5.625E-09	7.326E-09	4.921E-09	2.943E-09	2.042E-09	1.538E-09	1.220E-09	1.004E-09	8.478E-10	7.306E-10	6.396E-10
SE	7.618E-09	4.999E-09	4.186E-09	3.473E-09	2.757E-09	2.336E-09	2.060E-09	1.859E-09	1.582E-09	1.372E-09	1.208E-09
SSE	1.761E-08	2.059E-08	1.326E-08	7.549E-09	5.091E-09	3.758E-09	2.937E-09	2.387E-09	1.996E-09	1.705E-09	1.482E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	4.149E-08	4.153E-08	3.095E-08	2.550E-08	2.953E-08	1.822E-08	7.233E-09	3.618E-09	2.283E-09	1.623E-09
SSW	2.572E-08	3.166E-08	2.958E-08	3.262E-08	2.920E-08	2.019E-08	8.821E-09	4.581E-09	2.920E-09	2.084E-09
SW	3.364E-08	7.914E-08	5.406E-08	3.348E-08	2.387E-08	1.553E-08	6.883E-09	3.734E-09	2.463E-09	1.765E-09
WSW	5.543E-08	1.269E-07	8.061E-08	4.732E-08	3.238E-08	1.868E-08	8.457E-09	4.324E-09	2.750E-09	1.968E-09
W	1.063E-07	1.113E-07	5.855E-08	3.349E-08	2.227E-08	1.094E-08	4.944E-09	2.761E-09	1.756E-09	1.256E-09
WNW	2.305E-07	3.396E-07	1.850E-07	1.070E-07	6.983E-08	3.286E-08	1.250E-08	6.205E-09	3.916E-09	2.773E-09
NW	3.161E-07	5.043E-07	2.702E-07	1.474E-07	9.445E-08	4.408E-08	1.674E-08	8.286E-09	5.262E-09	3.739E-09
NNW	1.556E-07	2.061E-07	1.877E-07	1.482E-07	1.021E-07	4.993E-08	1.900E-08	9.529E-09	6.199E-09	4.521E-09
N	1.590E-07	1.348E-07	1.000E-07	7.179E-08	5.374E-08	3.107E-08	1.800E-08	1.181E-08	7.782E-09	5.547E-09
NNE	3.372E-08	4.705E-08	4.144E-08	3.233E-08	2.816E-08	3.350E-08	1.638E-08	8.075E-09	5.122E-09	3.659E-09
NE	1.483E-08	2.185E-08	1.839E-08	1.362E-08	1.130E-08	1.454E-08	7.400E-09	3.720E-09	2.425E-09	1.761E-09
ENE	8.116E-09	1.146E-08	8.911E-09	6.327E-09	5.035E-09	5.298E-09	2.591E-09	1.304E-09	8.555E-10	6.144E-10
E	7.622E-09	8.829E-09	6.892E-09	5.014E-09	4.051E-09	4.043E-09	1.932E-09	9.556E-10	6.089E-10	4.415E-10
ESE	4.424E-09	9.729E-09	8.966E-09	6.856E-09	5.640E-09	5.879E-09	2.982E-09	1.545E-09	1.006E-09	7.316E-10
SE	7.734E-09	1.575E-08	1.420E-08	1.090E-08	8.507E-09	5.220E-09	3.313E-09	2.338E-09	1.810E-09	1.373E-09
SSE	4.548E-08	4.488E-08	3.224E-08	2.257E-08	1.779E-08	1.667E-08	7.726E-09	3.785E-09	2.395E-09	1.709E-09

ERP ELEVATED STACK RELEASES - JUL-SEP 2002
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.684E-09	2.583E-08	4.508E-08	4.652E-08	4.356E-08	3.727E-08	3.119E-08	2.621E-08	2.228E-08	2.739E-08	3.177E-08
SSW	1.519E-09	1.453E-08	2.629E-08	3.081E-08	3.344E-08	3.052E-08	2.649E-08	3.113E-08	3.464E-08	3.132E-08	2.858E-08
SW	6.772E-11	5.010E-09	2.464E-08	5.460E-08	1.034E-07	7.269E-08	5.366E-08	4.142E-08	3.315E-08	2.730E-08	2.300E-08
WSW	1.644E-10	1.129E-08	4.257E-08	8.693E-08	1.717E-07	1.121E-07	7.923E-08	5.940E-08	4.654E-08	3.771E-08	3.137E-08
W	7.597E-10	3.894E-08	1.105E-07	1.364E-07	1.316E-07	8.300E-08	5.750E-08	4.255E-08	3.304E-08	2.659E-08	2.199E-08
WNW	1.231E-08	4.949E-08	2.009E-07	3.424E-07	4.355E-07	2.646E-07	1.788E-07	1.354E-07	1.069E-07	8.441E-08	6.873E-08
NW	2.954E-08	1.255E-07	2.700E-07	4.451E-07	6.832E-07	3.974E-07	2.617E-07	1.904E-07	1.460E-07	1.147E-07	9.302E-08
NNW	2.606E-08	1.030E-07	1.567E-07	1.808E-07	2.195E-07	2.076E-07	1.900E-07	1.709E-07	1.556E-07	1.228E-07	1.001E-07
N	4.755E-08	1.400E-07	1.725E-07	1.581E-07	1.385E-07	1.197E-07	1.016E-07	8.468E-08	7.159E-08	6.140E-08	5.336E-08
NNE	2.580E-09	1.733E-08	3.300E-08	4.236E-08	4.970E-08	4.714E-08	4.194E-08	3.677E-08	3.227E-08	2.852E-08	2.543E-08
NE	2.715E-09	8.012E-09	1.327E-08	1.936E-08	2.359E-08	2.165E-08	1.860E-08	1.584E-08	1.358E-08	1.178E-08	1.034E-08
ENE	3.386E-11	2.549E-09	7.763E-09	1.114E-08	1.243E-08	1.083E-08	8.992E-09	7.478E-09	6.303E-09	5.395E-09	4.689E-09
E	6.277E-11	4.026E-09	8.007E-09	9.108E-09	9.354E-09	8.228E-09	6.947E-09	5.855E-09	4.985E-09	4.299E-09	3.756E-09
ESE	1.342E-16	1.796E-10	3.397E-09	7.297E-09	1.054E-08	1.026E-08	9.087E-09	7.879E-09	6.834E-09	5.969E-09	5.265E-09
SE	3.617E-16	3.718E-10	6.236E-09	1.251E-08	1.705E-08	1.631E-08	1.439E-08	1.250E-08	1.088E-08	9.544E-09	8.452E-09
SSE	3.071E-09	2.909E-08	4.874E-08	5.115E-08	4.744E-08	3.963E-08	3.248E-08	2.683E-08	2.250E-08	1.916E-08	1.656E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.860E-08	1.875E-08	1.209E-08	6.841E-09	4.667E-09	3.445E-09	2.655E-09	2.129E-09	1.763E-09	1.490E-09	1.279E-09
SSW	2.728E-08	2.209E-08	1.435E-08	8.194E-09	5.755E-09	4.269E-09	3.289E-09	2.635E-09	2.174E-09	1.831E-09	1.569E-09
SW	2.143E-08	1.683E-08	1.109E-08	6.460E-09	4.615E-09	3.520E-09	2.811E-09	2.263E-09	1.873E-09	1.585E-09	1.363E-09
WSW	2.790E-08	1.854E-08	1.320E-08	8.136E-09	5.421E-09	3.950E-09	3.045E-09	2.438E-09	2.008E-09	1.690E-09	1.446E-09
W	1.860E-08	1.021E-08	7.325E-09	4.771E-09	3.517E-09	2.586E-09	1.998E-09	1.605E-09	1.326E-09	1.120E-09	9.619E-10
WNW	5.788E-08	3.130E-08	2.071E-08	1.207E-08	8.091E-09	5.927E-09	4.598E-09	3.699E-09	3.057E-09	2.581E-09	2.218E-09
NW	7.807E-08	4.187E-08	2.777E-08	1.623E-08	1.082E-08	7.900E-09	6.173E-09	4.979E-09	4.120E-09	3.486E-09	3.000E-09
NNW	8.556E-08	4.885E-08	3.172E-08	1.820E-08	1.231E-08	9.093E-09	7.165E-09	5.852E-09	4.948E-09	4.225E-09	3.653E-09
N	4.707E-08	2.936E-08	2.364E-08	1.783E-08	1.434E-08	1.157E-08	9.011E-09	7.266E-09	6.011E-09	5.083E-09	4.372E-09
NNE	2.969E-08	4.253E-08	2.740E-08	1.553E-08	1.040E-08	7.610E-09	5.894E-09	4.745E-09	3.930E-09	3.325E-09	2.862E-09
NE	1.155E-08	1.882E-08	1.222E-08	6.993E-09	4.707E-09	3.460E-09	2.720E-09	2.212E-09	1.851E-09	1.566E-09	1.347E-09
ENE	4.964E-09	6.628E-09	4.320E-09	2.483E-09	1.676E-09	1.235E-09	9.886E-10	8.124E-10	6.740E-10	5.714E-10	4.928E-10
E	3.998E-09	4.933E-09	3.190E-09	1.808E-09	1.206E-09	8.786E-10	6.769E-10	5.420E-10	4.528E-10	3.845E-10	3.286E-10
ESE	5.566E-09	7.190E-09	4.796E-09	2.828E-09	1.934E-09	1.436E-09	1.123E-09	9.101E-10	7.573E-10	6.430E-10	5.547E-10
SE	7.554E-09	4.935E-09	4.113E-09	3.378E-09	2.652E-09	2.220E-09	1.932E-09	1.719E-09	1.446E-09	1.240E-09	1.079E-09
SSE	1.749E-08	2.030E-08	1.301E-08	7.332E-09	4.894E-09	3.576E-09	2.766E-09	2.225E-09	1.841E-09	1.557E-09	1.339E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	SEGMENT BOUNDARIES IN MILES FROM THE SITE 4-5	5-10	10-20	20-30	30-40	40-50
S	4.144E-08	4.142E-08	3.082E-08	2.535E-08	2.930E-08	1.798E-08	7.041E-09	3.455E-09	2.140E-09	1.493E-09
SSW	2.569E-08	3.156E-08	2.942E-08	3.237E-08	2.891E-08	1.980E-08	8.477E-09	4.273E-09	2.647E-09	1.836E-09
SW	3.359E-08	7.892E-08	5.384E-08	3.328E-08	2.369E-08	1.530E-08	6.670E-09	3.528E-09	2.271E-09	1.588E-09
WSW	5.534E-08	1.264E-07	8.007E-08	4.685E-08	3.196E-08	1.825E-08	8.056E-09	3.981E-09	2.448E-09	1.694E-09
W	1.061E-07	1.111E-07	5.832E-08	3.330E-08	2.210E-08	1.079E-08	4.781E-09	2.599E-09	1.611E-09	1.123E-09
WNW	2.302E-07	3.389E-07	1.843E-07	1.065E-07	6.936E-08	3.250E-08	1.222E-08	5.972E-09	3.711E-09	2.587E-09
NW	3.157E-07	5.033E-07	2.694E-07	1.468E-07	9.390E-08	4.365E-08	1.639E-08	7.987E-09	4.993E-09	3.494E-09
NNW	1.555E-07	2.056E-07	1.871E-07	1.475E-07	1.014E-07	4.939E-08	1.859E-08	9.180E-09	5.883E-09	4.227E-09
N	1.589E-07	1.345E-07	9.966E-08	7.145E-08	5.341E-08	3.075E-08	1.757E-08	1.128E-08	7.287E-09	5.095E-09
NNE	3.368E-08	4.693E-08	4.126E-08	3.213E-08	2.792E-08	3.295E-08	1.589E-08	7.666E-09	4.763E-09	3.333E-09
NE	1.481E-08	2.179E-08	1.831E-08	1.354E-08	1.122E-08	1.427E-08	7.138E-09	3.496E-09	2.219E-09	1.570E-09
ENE	8.105E-09	1.143E-08	8.876E-09	6.293E-09	5.000E-09	5.233E-09	2.532E-09	1.254E-09	8.100E-10	5.727E-10
E	7.612E-09	8.799E-09	6.852E-09	4.972E-09	4.006E-09	3.950E-09	1.847E-09	8.852E-10	5.466E-10	3.840E-10
ESE	4.415E-09	9.693E-09	8.916E-09	6.803E-09	5.585E-09	5.765E-09	2.868E-09	1.443E-09	9.127E-10	6.442E-10
SE	7.723E-09	1.571E-08	1.415E-08	1.083E-08	8.443E-09	5.152E-09	3.219E-09	2.220E-09	1.676E-09	1.241E-09
SSE	4.544E-08	4.479E-08	3.212E-08	2.246E-08	1.767E-08	1.643E-08	7.510E-09	3.604E-09	2.233E-09	1.560E-09

ERP ELEVATED STACK RELEASES - JUL-SEP 2002
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.684E-09	2.561E-08	4.430E-08	4.575E-08	4.279E-08	3.649E-08	3.041E-08	2.546E-08	2.157E-08	2.661E-08	3.099E-08
SSW	1.519E-09	1.441E-08	2.589E-08	3.043E-08	3.300E-08	3.001E-08	2.593E-08	3.048E-08	3.396E-08	3.068E-08	2.799E-08
SW	6.774E-11	4.971E-09	2.447E-08	5.445E-08	1.027E-07	7.183E-08	5.284E-08	4.068E-08	3.249E-08	2.671E-08	2.248E-08
WSW	1.644E-10	1.120E-08	4.212E-08	8.648E-08	1.706E-07	1.110E-07	7.828E-08	5.860E-08	4.586E-08	3.713E-08	3.087E-08
W	7.599E-10	3.846E-08	1.094E-07	1.347E-07	1.295E-07	8.138E-08	5.622E-08	4.151E-08	3.217E-08	2.585E-08	2.136E-08
WNW	1.231E-08	4.916E-08	1.999E-07	3.394E-07	4.295E-07	2.593E-07	1.743E-07	1.316E-07	1.036E-07	8.149E-08	6.605E-08
NW	2.954E-08	1.245E-07	2.663E-07	4.404E-07	6.751E-07	3.901E-07	2.555E-07	1.853E-07	1.417E-07	1.108E-07	8.947E-08
NNW	2.606E-08	1.022E-07	1.541E-07	1.783E-07	2.167E-07	2.043E-07	1.868E-07	1.680E-07	1.530E-07	1.204E-07	9.768E-08
N	4.756E-08	1.388E-07	1.693E-07	1.552E-07	1.359E-07	1.172E-07	9.906E-08	8.232E-08	6.937E-08	5.933E-08	5.143E-08
NNE	2.580E-09	1.718E-08	3.258E-08	4.199E-08	4.917E-08	4.647E-08	4.121E-08	3.602E-08	3.155E-08	2.783E-08	2.478E-08
NE	2.715E-09	7.947E-09	1.316E-08	1.930E-08	2.339E-08	2.133E-08	1.822E-08	1.543E-08	1.317E-08	1.138E-08	9.957E-09
ENE	3.387E-11	2.530E-09	7.689E-09	1.107E-08	1.230E-08	1.063E-08	8.769E-09	7.247E-09	6.074E-09	5.174E-09	4.478E-09
E	6.278E-11	3.993E-09	7.879E-09	8.981E-09	9.214E-09	8.069E-09	6.779E-09	5.686E-09	4.821E-09	4.142E-09	3.607E-09
ESE	1.342E-16	1.797E-10	3.401E-09	7.307E-09	1.048E-08	1.013E-08	8.927E-09	7.704E-09	6.655E-09	5.793E-09	5.094E-09
SE	3.617E-16	3.720E-10	6.240E-09	1.253E-08	1.694E-08	1.610E-08	1.414E-08	1.223E-08	1.061E-08	9.283E-09	8.202E-09
SSE	3.072E-09	2.884E-08	4.794E-08	5.039E-08	4.664E-08	3.877E-08	3.161E-08	2.598E-08	2.168E-08	1.839E-08	1.584E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.789E-08	1.802E-08	1.128E-08	6.015E-09	3.833E-09	2.686E-09	1.998E-09	1.553E-09	1.253E-09	1.038E-09	8.738E-10
SSW	2.673E-08	2.150E-08	1.357E-08	7.312E-09	4.823E-09	3.476E-09	2.615E-09	2.053E-09	1.664E-09	1.380E-09	1.166E-09
SW	2.096E-08	1.635E-08	1.047E-08	5.735E-09	3.814E-09	2.748E-09	2.134E-09	1.679E-09	1.362E-09	1.131E-09	9.567E-10
WSW	2.748E-08	1.805E-08	1.253E-08	7.413E-09	4.788E-09	3.404E-09	2.572E-09	2.025E-09	1.644E-09	1.367E-09	1.157E-09
W	1.804E-08	9.865E-09	7.020E-09	4.350E-09	3.050E-09	2.183E-09	1.649E-09	1.299E-09	1.055E-09	8.777E-10	7.437E-10
WNW	5.535E-08	2.911E-08	1.870E-08	1.024E-08	6.405E-09	4.480E-09	3.368E-09	2.638E-09	2.128E-09	1.758E-09	1.480E-09
NW	7.472E-08	3.897E-08	2.509E-08	1.389E-08	8.864E-09	6.246E-09	4.739E-09	3.727E-09	3.016E-09	2.500E-09	2.112E-09
NNW	8.314E-08	4.620E-08	2.907E-08	1.563E-08	9.793E-09	6.789E-09	5.076E-09	3.994E-09	3.286E-09	2.740E-09	2.317E-09
N	4.526E-08	2.802E-08	2.257E-08	1.712E-08	1.360E-08	1.059E-08	8.072E-09	6.388E-09	5.198E-09	4.330E-09	3.675E-09
NNE	2.904E-08	4.175E-08	2.610E-08	1.406E-08	8.968E-09	6.316E-09	4.735E-09	3.706E-09	2.994E-09	2.477E-09	2.089E-09
NE	1.115E-08	1.842E-08	1.161E-08	6.310E-09	4.031E-09	2.840E-09	2.161E-09	1.719E-09	1.412E-09	1.175E-09	9.960E-10
ENE	4.747E-09	6.412E-09	4.059E-09	2.197E-09	1.385E-09	9.637E-10	7.343E-10	5.820E-10	4.716E-10	3.913E-10	3.309E-10
E	3.847E-09	4.810E-09	3.030E-09	1.627E-09	1.019E-09	7.051E-10	5.201E-10	4.009E-10	3.239E-10	2.673E-10	2.231E-10
ESE	5.390E-09	7.053E-09	4.581E-09	2.554E-09	1.635E-09	1.149E-09	8.584E-10	6.684E-10	5.368E-10	4.413E-10	3.697E-10
SE	7.316E-09	4.755E-09	3.972E-09	3.299E-09	2.613E-09	2.210E-09	1.945E-09	1.749E-09	1.457E-09	1.241E-09	1.073E-09
SSE	1.674E-08	1.956E-08	1.217E-08	6.516E-09	4.148E-09	2.915E-09	2.181E-09	1.704E-09	1.374E-09	1.135E-09	9.557E-10

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	SEGMENT BOUNDARIES IN MILES FROM THE SITE 4-5	5-10	10-20	20-30	30-40	40-50
S	4.079E-08	4.065E-08	3.005E-08	2.460E-08	2.855E-08	1.722E-08	6.216E-09	2.717E-09	1.566E-09	1.041E-09
SSW	2.536E-08	3.110E-08	2.884E-08	3.172E-08	2.832E-08	1.914E-08	7.597E-09	3.491E-09	2.065E-09	1.385E-09
SW	3.346E-08	7.827E-08	5.304E-08	3.263E-08	2.317E-08	1.476E-08	5.934E-09	2.787E-09	1.688E-09	1.135E-09
WSW	5.496E-08	1.254E-07	7.914E-08	4.617E-08	3.147E-08	1.769E-08	7.383E-09	3.440E-09	2.036E-09	1.371E-09
W	1.049E-07	1.093E-07	5.705E-08	3.243E-08	2.146E-08	1.042E-08	4.366E-09	2.201E-09	1.306E-09	8.807E-10
WNW	2.284E-07	3.338E-07	1.799E-07	1.032E-07	6.666E-08	3.032E-08	1.042E-08	4.548E-09	2.652E-09	1.764E-09
NW	3.122E-07	4.963E-07	2.633E-07	1.424E-07	9.034E-08	4.075E-08	1.414E-08	6.341E-09	3.745E-09	2.509E-09
NNW	1.533E-07	2.027E-07	1.839E-07	1.448E-07	9.901E-08	4.680E-08	1.602E-08	6.905E-09	4.034E-09	2.745E-09
N	1.563E-07	1.319E-07	9.719E-08	6.925E-08	5.149E-08	2.943E-08	1.677E-08	1.039E-08	6.416E-09	4.344E-09
NNE	3.334E-08	4.637E-08	4.054E-08	3.141E-08	2.726E-08	3.197E-08	1.447E-08	6.391E-09	3.729E-09	2.487E-09
NE	1.473E-08	2.157E-08	1.793E-08	1.314E-08	1.082E-08	1.378E-08	6.476E-09	2.886E-09	1.728E-09	1.179E-09
ENE	8.044E-09	1.128E-08	8.657E-09	6.066E-09	4.784E-09	4.996E-09	2.250E-09	9.842E-10	5.835E-10	3.927E-10
E	7.505E-09	8.653E-09	6.686E-09	4.809E-09	3.855E-09	3.805E-09	1.668E-09	7.147E-10	4.056E-10	2.677E-10
ESE	4.421E-09	9.620E-09	8.759E-09	6.626E-09	5.411E-09	5.585E-09	2.596E-09	1.162E-09	6.725E-10	4.431E-10
SE	7.731E-09	1.559E-08	1.390E-08	1.057E-08	8.194E-09	4.976E-09	3.144E-09	2.211E-09	1.694E-09	1.243E-09
SSE	4.479E-08	4.397E-08	3.127E-08	2.166E-08	1.693E-08	1.565E-08	6.720E-09	2.950E-09	1.714E-09	1.139E-09

ERP ELEVATED STACK RELEASES - JUL-SEP 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	3.108E-09	2.536E-09	2.168E-09	1.504E-09	7.376E-10	4.539E-10	3.073E-10	2.209E-10	1.655E-10	1.311E-10	1.200E-10
SSW	1.819E-09	1.517E-09	1.344E-09	9.596E-10	4.817E-10	2.992E-10	2.036E-10	1.468E-10	1.338E-10	1.012E-10	7.927E-11
SW	5.409E-10	5.602E-10	6.541E-10	5.540E-10	5.831E-10	3.157E-10	1.950E-10	1.321E-10	9.534E-11	7.205E-11	5.637E-11
WSW	1.306E-09	1.122E-09	1.041E-09	1.255E-09	6.912E-10	3.723E-10	2.295E-10	1.553E-10	1.121E-10	8.469E-11	6.628E-11
W	7.910E-10	2.346E-09	1.922E-09	1.172E-09	5.314E-10	2.872E-10	1.778E-10	1.211E-10	8.825E-11	6.758E-11	5.377E-11
WNW	2.404E-09	2.344E-09	6.782E-09	4.626E-09	2.804E-09	1.410E-09	8.408E-10	5.652E-10	4.215E-10	3.305E-10	2.744E-10
NW	1.082E-08	8.550E-09	6.893E-09	7.819E-09	4.476E-09	2.234E-09	1.332E-09	8.960E-10	6.606E-10	5.234E-10	4.387E-10
NNW	1.155E-08	8.892E-09	6.811E-09	4.275E-09	2.949E-09	1.571E-09	9.643E-10	7.740E-10	5.753E-10	4.600E-10	3.891E-10
N	1.569E-08	1.227E-08	9.702E-09	6.280E-09	2.897E-09	1.735E-09	1.158E-09	8.264E-10	6.168E-10	4.758E-10	3.767E-10
NNE	2.106E-09	1.895E-09	1.880E-09	1.453E-09	7.732E-10	4.913E-10	3.382E-10	2.452E-10	1.845E-10	1.428E-10	1.131E-10
NE	5.487E-10	6.074E-10	7.545E-10	6.580E-10	3.774E-10	2.462E-10	1.717E-10	1.253E-10	9.463E-11	7.335E-11	5.809E-11
ENE	2.750E-10	3.076E-10	3.856E-10	3.377E-10	1.941E-10	1.267E-10	8.842E-11	6.455E-11	4.874E-11	3.778E-11	2.992E-11
E	5.199E-10	4.345E-10	3.864E-10	2.766E-10	1.392E-10	8.653E-11	5.891E-11	4.247E-11	3.187E-11	2.464E-11	1.951E-11
ESE	1.572E-11	9.431E-11	2.008E-10	2.080E-10	1.299E-10	8.711E-11	6.153E-11	4.520E-11	3.423E-11	2.657E-11	2.104E-11
SE	3.144E-11	1.886E-10	4.016E-10	4.160E-10	2.598E-10	1.742E-10	1.231E-10	9.040E-11	6.847E-11	5.314E-11	4.209E-11
SSE	3.641E-09	3.049E-09	2.721E-09	1.954E-09	9.850E-10	6.130E-10	4.175E-10	3.011E-10	2.259E-10	1.747E-10	1.383E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	9.656E-11	9.383E-11	6.877E-11	4.231E-11	2.723E-11	1.654E-11	1.183E-11	8.868E-12	7.046E-12	5.614E-12	4.582E-12
SSW	6.440E-11	7.137E-11	5.339E-11	3.332E-11	1.821E-11	1.277E-11	9.148E-12	6.871E-12	5.390E-12	4.306E-12	3.515E-12
SW	4.533E-11	5.796E-11	4.414E-11	2.786E-11	1.793E-11	1.061E-11	7.417E-12	5.570E-12	4.331E-12	3.459E-12	2.824E-12
WSW	5.413E-11	5.422E-11	4.001E-11	2.420E-11	1.465E-11	9.820E-12	7.037E-12	5.284E-12	4.108E-12	3.282E-12	2.679E-12
W	4.410E-11	2.160E-11	3.482E-11	2.225E-11	1.277E-11	8.563E-12	6.136E-12	4.607E-12	3.582E-12	2.862E-12	2.336E-12
WNW	2.400E-10	1.498E-10	1.087E-10	6.617E-11	4.079E-11	2.697E-11	1.935E-11	1.453E-11	1.130E-11	9.025E-12	7.366E-12
NW	3.853E-10	2.448E-10	1.791E-10	1.077E-10	6.535E-11	4.386E-11	3.185E-11	2.392E-11	1.862E-11	1.487E-11	1.214E-11
NNW	3.445E-10	2.241E-10	1.657E-10	1.029E-10	6.659E-11	4.470E-11	2.913E-11	2.098E-11	1.662E-11	1.328E-11	1.084E-11
N	3.045E-10	1.455E-10	8.963E-11	4.832E-11	1.127E-10	6.732E-11	4.824E-11	3.622E-11	2.816E-11	2.250E-11	1.836E-11
NNE	9.123E-11	1.960E-10	1.221E-10	6.380E-11	3.900E-11	2.609E-11	1.862E-11	1.391E-11	1.078E-11	8.581E-12	6.985E-12
NE	4.682E-11	8.106E-11	5.038E-11	2.626E-11	1.605E-11	1.073E-11	7.704E-12	5.724E-12	4.451E-12	3.575E-12	2.918E-12
ENE	2.411E-11	2.763E-11	2.010E-11	1.225E-11	7.826E-12	5.197E-12	3.659E-12	2.515E-12	1.959E-12	1.567E-12	1.281E-12
E	1.575E-11	1.813E-11	1.327E-11	8.147E-12	5.237E-12	3.496E-12	2.473E-12	1.827E-12	1.401E-12	1.040E-12	8.468E-13
ESE	1.695E-11	2.548E-11	1.928E-11	1.210E-11	7.762E-12	5.130E-12	3.589E-12	2.619E-12	1.988E-12	1.556E-12	1.248E-12
SE	3.389E-11	1.605E-11	9.780E-12	5.144E-12	3.150E-12	2.213E-12	1.725E-12	6.145E-12	4.691E-12	3.695E-12	2.989E-12
SSE	1.116E-10	1.406E-10	8.600E-11	4.401E-11	2.674E-11	1.792E-11	1.282E-11	9.610E-12	7.463E-12	5.956E-12	4.858E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.955E-09	7.818E-10	3.118E-10	1.683E-10	1.146E-10	8.330E-11	4.149E-11	1.751E-11	9.021E-12	5.656E-12
SSW	1.212E-09	5.068E-10	2.064E-10	1.251E-10	8.026E-11	6.183E-11	3.106E-11	1.277E-11	6.958E-12	4.334E-12
SW	5.887E-10	4.578E-10	2.020E-10	9.696E-11	5.693E-11	4.901E-11	2.706E-11	1.128E-11	5.626E-12	3.482E-12
WSW	1.154E-09	6.747E-10	2.379E-10	1.140E-10	6.723E-11	4.788E-11	2.347E-11	9.994E-12	5.337E-12	3.303E-12
W	1.683E-09	5.652E-10	1.843E-10	8.977E-11	5.428E-11	3.247E-11	2.083E-11	8.714E-12	4.653E-12	2.880E-12
WNW	4.838E-09	2.589E-09	8.823E-10	4.279E-10	2.783E-10	1.516E-10	6.433E-11	2.761E-11	1.468E-11	9.084E-12
NW	7.673E-09	4.222E-09	1.398E-09	6.756E-10	4.440E-10	2.468E-10	1.048E-10	4.479E-11	2.417E-11	1.497E-11
NNW	6.146E-09	2.631E-09	1.050E-09	5.882E-10	3.936E-10	2.249E-10	1.007E-10	4.431E-11	2.165E-11	1.337E-11
N	8.752E-09	3.132E-09	1.179E-09	6.230E-10	3.793E-10	1.560E-10	8.613E-11	7.179E-11	3.658E-11	2.264E-11
NNE	1.694E-09	7.990E-10	3.418E-10	1.860E-10	1.138E-10	1.399E-10	6.574E-11	2.654E-11	1.406E-11	8.640E-12
NE	6.789E-10	3.814E-10	1.730E-10	9.530E-11	5.844E-11	5.982E-11	2.708E-11	1.094E-11	5.805E-12	3.591E-12
ENE	3.470E-10	1.961E-10	8.910E-11	4.908E-11	3.010E-11	2.350E-11	1.203E-11	5.283E-12	2.630E-12	1.577E-12
E	3.483E-10	1.463E-10	5.970E-11	3.214E-11	1.964E-11	1.544E-11	7.991E-12	3.551E-12	1.850E-12	1.076E-12
ESE	1.803E-10	1.282E-10	6.182E-11	3.445E-11	2.116E-11	2.083E-11	1.177E-11	5.216E-12	2.656E-12	1.570E-12
SE	3.607E-10	2.565E-10	1.236E-10	6.890E-11	4.233E-11	1.723E-11	5.288E-12	2.268E-12	4.328E-12	3.729E-12
SSE	2.453E-09	1.035E-09	4.231E-10	2.279E-10	1.392E-10	1.099E-10	4.567E-11	1.823E-11	9.709E-12	5.996E-12

ERP ELEVATED STACK RELEASES - JUL-SEP 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	4.6E-08	4.6E-08	4.5E-08	2.0E-09
A	Site Boundary	SSW	.82	2.8E-08	2.8E-08	2.7E-08	1.2E-09
A	Site Boundary	SW	.97	5.2E-08	5.1E-08	5.1E-08	5.7E-10
A	Site Boundary	WSW	.93	7.2E-08	7.2E-08	7.2E-08	1.1E-09
A	Site Boundary	W	.91	1.3E-07	1.3E-07	1.3E-07	1.4E-09
A	Site Boundary	WNW	.94	3.1E-07	3.1E-07	3.1E-07	5.2E-09
A	Site Boundary	NW	.81	3.1E-07	3.1E-07	3.0E-07	6.2E-09
A	Site Boundary	NNW	.69	1.4E-07	1.4E-07	1.4E-07	7.2E-09
A	Site Boundary	N	.67	1.6E-07	1.6E-07	1.6E-07	1.0E-08
A	Site Boundary	NNE	.60	2.3E-08	2.3E-08	2.2E-08	1.9E-09
A	Site Boundary	NE	.62	9.3E-09	9.3E-09	9.2E-09	6.7E-10
A	Site Boundary	ENE	.59	4.0E-09	4.0E-09	4.0E-09	3.3E-10
A	Site Boundary	E	.53	4.5E-09	4.5E-09	4.4E-09	4.3E-10
A	Site Boundary	ESE	.54	3.7E-10	3.7E-10	3.7E-10	1.1E-10
A	Site Boundary	SE	.65	3.0E-09	3.0E-09	3.0E-09	3.2E-10
A	Site Boundary	SSE	.81	5.0E-08	5.0E-08	4.9E-08	2.5E-09
A	Nearest Res	SW	1.30	8.9E-08	8.9E-08	8.8E-08	7.8E-10
A	Nearest Res	WSW	2.50	8.0E-08	7.9E-08	7.8E-08	2.3E-10
A	Nearest Res	W	1.00	1.4E-07	1.4E-07	1.3E-07	1.2E-09
A	Nearest Res	WNW	1.70	3.5E-07	3.5E-07	3.5E-07	2.1E-09
A	Nearest Res	NW	.90	3.7E-07	3.7E-07	3.6E-07	9.0E-09
A	Nearest Res	NNW	1.90	2.1E-07	2.1E-07	2.1E-07	1.8E-09
A	Nearest Res	N	3.00	8.5E-08	8.5E-08	8.2E-08	8.3E-10
A	Nearest Res	ENE	1.70	1.2E-08	1.2E-08	1.2E-08	1.6E-10
A	Nearest Res	E	1.80	8.8E-09	8.7E-09	8.6E-09	1.0E-10
A	Nearest Res	ESE	2.30	9.6E-09	9.6E-09	9.4E-09	7.0E-11
A	Nearest Cow	NNW	3.50	1.6E-07	1.6E-07	1.5E-07	5.8E-10
A	Nearest Garde	SW	1.30	8.9E-08	8.9E-08	8.8E-08	7.8E-10
A	Nearest Garde	WSW	1.90	1.2E-07	1.2E-07	1.2E-07	4.2E-10
A	Nearest Garde	WNW	2.40	1.9E-07	1.9E-07	1.9E-07	9.2E-10
A	Nearest Garde	NW	2.90	2.0E-07	2.0E-07	2.0E-07	9.6E-10
A	Nearest Garde	NNW	1.90	2.1E-07	2.1E-07	2.1E-07	1.8E-09
A	Nearest Garde	N	3.00	8.5E-08	8.5E-08	8.2E-08	8.3E-10
A	Nearest Garde	ESE	2.30	9.6E-09	9.6E-09	9.4E-09	7.0E-11
A	MAXIMUM CHI/Q	S	1.00	4.7E-08	4.7E-08	4.6E-08	1.5E-09
A	MAXIMUM CHI/Q	SSW	3.50	3.5E-08	3.5E-08	3.4E-08	1.3E-10
A	MAXIMUM CHI/Q	SW	1.50	1.0E-07	1.0E-07	1.0E-07	5.8E-10
A	MAXIMUM CHI/Q	WSW	1.50	1.7E-07	1.7E-07	1.7E-07	6.9E-10
A	MAXIMUM CHI/Q	W	1.00	1.4E-07	1.4E-07	1.3E-07	1.2E-09
A	MAXIMUM CHI/Q	WNW	1.50	4.4E-07	4.4E-07	4.3E-07	2.8E-09
A	MAXIMUM CHI/Q	NW	1.50	6.8E-07	6.8E-07	6.8E-07	4.5E-09
A	MAXIMUM CHI/Q	NNW	1.50	2.2E-07	2.2E-07	2.2E-07	2.9E-09
A	MAXIMUM CHI/Q	N	.75	1.7E-07	1.7E-07	1.7E-07	9.7E-09
A	MAXIMUM CHI/Q	NNE	1.50	5.0E-08	5.0E-08	4.9E-08	7.7E-10
A	MAXIMUM CHI/Q	NE	1.50	2.4E-08	2.4E-08	2.3E-08	3.8E-10
A	MAXIMUM CHI/Q	ENE	1.50	1.2E-08	1.2E-08	1.2E-08	1.9E-10
A	MAXIMUM CHI/Q	E	1.50	9.4E-09	9.4E-09	9.2E-09	1.4E-10
A	MAXIMUM CHI/Q	ESE	1.50	1.1E-08	1.1E-08	1.0E-08	1.3E-10
A	MAXIMUM CHI/Q	SE	1.50	1.7E-08	1.7E-08	1.7E-08	2.6E-10
A	MAXIMUM CHI/Q	SSE	1.00	5.1E-08	5.1E-08	5.0E-08	2.0E-09

Atmospheric Diffusion Estimates

Elevated Releases

October-December 2002

ERP ELEVATED STACK RELEASES - OCT-DEC 2002
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.183E-10	7.833E-09	2.577E-08	3.719E-08	4.095E-08	3.544E-08	2.935E-08	2.436E-08	2.050E-08	2.456E-08	2.963E-08
SSW	1.056E-15	8.252E-10	1.248E-08	2.366E-08	2.999E-08	2.739E-08	2.340E-08	2.620E-08	2.710E-08	2.357E-08	2.072E-08
SW	3.855E-16	4.496E-10	1.764E-08	4.672E-08	7.483E-08	5.023E-08	3.601E-08	2.725E-08	2.150E-08	1.752E-08	1.464E-08
WSW	6.901E-17	1.028E-10	5.116E-09	1.444E-08	2.405E-08	1.524E-08	1.076E-08	8.170E-09	6.530E-09	5.413E-09	4.612E-09
W	1.963E-14	6.700E-09	4.835E-08	6.898E-08	6.486E-08	4.078E-08	2.805E-08	2.059E-08	1.587E-08	1.269E-08	1.043E-08
WNW	6.108E-16	1.124E-10	5.131E-09	2.719E-08	8.236E-08	5.610E-08	4.078E-08	3.373E-08	2.855E-08	2.319E-08	1.934E-08
NW	4.925E-16	4.423E-10	2.590E-08	9.848E-08	2.424E-07	1.476E-07	1.003E-07	7.542E-08	5.943E-08	4.743E-08	3.900E-08
NNW	9.385E-11	6.308E-09	2.627E-08	5.367E-08	9.000E-08	9.572E-08	9.620E-08	9.086E-08	8.360E-08	6.617E-08	5.403E-08
N	1.059E-08	4.292E-08	5.796E-08	6.460E-08	6.884E-08	6.390E-08	5.612E-08	4.782E-08	4.112E-08	3.577E-08	3.149E-08
NNE	2.563E-10	1.748E-08	4.125E-08	5.385E-08	6.228E-08	5.781E-08	5.052E-08	4.368E-08	3.794E-08	3.327E-08	2.949E-08
NE	1.013E-10	7.754E-09	2.550E-08	3.933E-08	4.995E-08	4.785E-08	4.251E-08	3.711E-08	3.241E-08	2.850E-08	2.529E-08
ENE	5.064E-11	4.097E-09	1.644E-08	2.655E-08	3.289E-08	3.058E-08	2.663E-08	2.293E-08	1.985E-08	1.734E-08	1.532E-08
E	6.376E-16	6.490E-10	1.086E-08	2.172E-08	2.945E-08	2.816E-08	2.493E-08	2.174E-08	1.902E-08	1.677E-08	1.494E-08
ESE	7.746E-09	3.477E-08	4.515E-08	5.098E-08	5.254E-08	4.577E-08	3.848E-08	3.246E-08	2.774E-08	2.405E-08	2.115E-08
SE	1.965E-15	1.389E-09	2.065E-08	3.899E-08	4.931E-08	4.508E-08	3.859E-08	3.276E-08	2.802E-08	2.424E-08	2.121E-08
SSE	3.341E-10	1.974E-08	4.640E-08	5.689E-08	5.919E-08	5.211E-08	4.418E-08	3.742E-08	3.198E-08	2.766E-08	2.423E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.759E-08	2.351E-08	1.578E-08	9.452E-09	7.082E-09	5.602E-09	4.423E-09	3.625E-09	3.103E-09	2.698E-09	2.356E-09
SSW	1.887E-08	1.276E-08	8.186E-09	4.616E-09	3.161E-09	2.325E-09	1.800E-09	1.451E-09	1.205E-09	1.023E-09	8.838E-10
SW	1.348E-08	1.111E-08	7.389E-09	4.370E-09	3.223E-09	2.523E-09	2.057E-09	1.677E-09	1.407E-09	1.205E-09	1.050E-09
WSW	4.410E-09	4.417E-09	3.836E-09	2.867E-09	1.995E-09	1.508E-09	1.202E-09	9.914E-10	8.396E-10	7.256E-10	6.371E-10
W	8.774E-09	4.720E-09	3.335E-09	2.165E-09	1.609E-09	1.186E-09	9.216E-10	7.452E-10	6.205E-10	5.283E-10	4.578E-10
WNW	1.677E-08	1.009E-08	7.138E-09	4.540E-09	3.181E-09	2.412E-09	1.930E-09	1.590E-09	1.338E-09	1.150E-09	1.004E-09
NW	3.328E-08	1.901E-08	1.321E-08	8.218E-09	5.592E-09	4.157E-09	3.336E-09	2.742E-09	2.299E-09	1.969E-09	1.714E-09
NNW	4.614E-08	2.605E-08	1.694E-08	9.749E-09	6.610E-09	4.898E-09	3.864E-09	3.162E-09	2.673E-09	2.291E-09	1.991E-09
N	2.810E-08	1.838E-08	1.595E-08	1.335E-08	1.097E-08	8.804E-09	6.906E-09	5.614E-09	4.689E-09	4.002E-09	3.475E-09
NNE	3.397E-08	6.776E-08	4.450E-08	2.600E-08	1.783E-08	1.334E-08	1.053E-08	8.636E-09	7.276E-09	6.258E-09	5.471E-09
NE	2.884E-08	5.846E-08	3.855E-08	2.265E-08	1.559E-08	1.169E-08	9.408E-09	7.813E-09	6.667E-09	5.735E-09	5.014E-09
ENE	1.674E-08	2.728E-08	1.816E-08	1.076E-08	7.432E-09	5.583E-09	4.642E-09	3.922E-09	3.298E-09	2.832E-09	2.473E-09
E	1.689E-08	3.503E-08	2.362E-08	1.422E-08	9.931E-09	7.520E-09	5.995E-09	4.952E-09	4.392E-09	3.917E-09	3.430E-09
ESE	2.279E-08	3.887E-08	2.656E-08	1.624E-08	1.144E-08	8.710E-09	6.972E-09	5.776E-09	4.908E-09	4.251E-09	3.739E-09
SE	1.877E-08	1.185E-08	9.503E-09	7.300E-09	5.549E-09	4.525E-09	3.856E-09	3.379E-09	2.854E-09	2.460E-09	2.154E-09
SSE	2.660E-08	4.151E-08	2.716E-08	1.579E-08	1.080E-08	8.059E-09	6.353E-09	5.201E-09	4.376E-09	3.760E-09	3.284E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.686E-08	3.767E-08	2.898E-08	2.315E-08	2.737E-08	2.098E-08	9.805E-09	5.525E-09	3.654E-09	2.692E-09
SSW	1.486E-08	2.743E-08	2.558E-08	2.550E-08	2.088E-08	1.209E-08	4.763E-09	2.338E-09	1.457E-09	1.025E-09
SW	2.674E-08	5.765E-08	3.630E-08	2.162E-08	1.506E-08	9.983E-09	4.531E-09	2.523E-09	1.683E-09	1.208E-09
WSW	8.146E-09	1.800E-08	1.092E-08	6.573E-09	4.775E-09	4.157E-09	2.695E-09	1.516E-09	9.938E-10	7.266E-10
W	4.827E-08	5.508E-08	2.846E-08	1.601E-08	1.049E-08	5.005E-09	2.178E-09	1.193E-09	7.481E-10	5.295E-10
WNW	1.382E-08	5.843E-08	4.204E-08	2.799E-08	1.953E-08	1.026E-08	4.514E-09	2.424E-09	1.591E-09	1.152E-09
NW	5.250E-08	1.683E-07	1.030E-07	5.943E-08	3.938E-08	1.961E-08	8.160E-09	4.211E-09	2.743E-09	1.972E-09
NNW	3.401E-08	8.447E-08	9.393E-08	7.903E-08	5.471E-08	2.647E-08	9.952E-09	4.941E-09	3.176E-09	2.293E-09
N	5.757E-08	6.570E-08	5.488E-08	4.100E-08	3.150E-08	1.946E-08	1.287E-08	8.622E-09	5.631E-09	4.010E-09
NNE	4.157E-08	5.842E-08	4.972E-08	3.780E-08	3.227E-08	4.991E-08	2.648E-08	1.341E-08	8.660E-09	6.268E-09
NE	2.770E-08	4.666E-08	4.177E-08	3.226E-08	2.756E-08	4.303E-08	2.304E-08	1.182E-08	7.832E-09	5.744E-09
ENE	1.819E-08	3.046E-08	2.621E-08	1.978E-08	1.645E-08	2.088E-08	1.092E-08	5.700E-09	3.890E-09	2.837E-09
E	1.342E-08	2.716E-08	2.452E-08	1.894E-08	1.621E-08	2.593E-08	1.440E-08	7.553E-09	5.037E-09	3.877E-09
ESE	4.543E-08	4.918E-08	3.801E-08	2.768E-08	2.262E-08	2.983E-08	1.640E-08	8.742E-09	5.787E-09	4.256E-09
SE	2.452E-08	4.514E-08	3.799E-08	2.793E-08	2.120E-08	1.234E-08	7.012E-09	4.530E-09	3.315E-09	2.464E-09
SSE	4.514E-08	5.553E-08	4.359E-08	3.189E-08	2.613E-08	3.182E-08	1.610E-08	8.108E-09	5.216E-09	3.766E-09

ERP ELEVATED STACK RELEASES - OCT-DEC 2002
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.183E-10	7.829E-09	2.575E-08	3.715E-08	4.088E-08	3.536E-08	2.927E-08	2.428E-08	2.042E-08	2.444E-08	2.943E-08
SSW	1.055E-15	8.248E-10	1.247E-08	2.364E-08	2.994E-08	2.733E-08	2.333E-08	2.611E-08	2.699E-08	2.346E-08	2.061E-08
SW	3.854E-16	4.493E-10	1.762E-08	4.663E-08	7.462E-08	5.004E-08	3.584E-08	2.709E-08	2.135E-08	1.738E-08	1.451E-08
WSW	6.899E-17	1.027E-10	5.110E-09	1.442E-08	2.399E-08	1.519E-08	1.070E-08	8.119E-09	6.479E-09	5.363E-09	4.562E-09
W	1.962E-14	6.690E-09	4.822E-08	6.872E-08	6.448E-08	4.047E-08	2.777E-08	2.036E-08	1.566E-08	1.249E-08	1.026E-08
WNW	6.107E-16	1.124E-10	5.127E-09	2.716E-08	8.222E-08	5.597E-08	4.066E-08	3.361E-08	2.843E-08	2.308E-08	1.924E-08
NW	4.924E-16	4.420E-10	2.587E-08	9.836E-08	2.420E-07	1.472E-07	1.000E-07	7.510E-08	5.913E-08	4.715E-08	3.874E-08
NNW	9.383E-11	6.304E-09	2.623E-08	5.354E-08	8.966E-08	9.526E-08	9.567E-08	9.029E-08	8.302E-08	6.565E-08	5.356E-08
N	1.058E-08	4.290E-08	5.791E-08	6.451E-08	6.865E-08	6.365E-08	5.583E-08	4.753E-08	4.082E-08	3.547E-08	3.119E-08
NNE	2.563E-10	1.747E-08	4.120E-08	5.375E-08	6.208E-08	5.755E-08	5.023E-08	4.338E-08	3.765E-08	3.298E-08	2.920E-08
NE	1.012E-10	7.749E-09	2.547E-08	3.926E-08	4.981E-08	4.766E-08	4.230E-08	3.689E-08	3.219E-08	2.827E-08	2.507E-08
ENE	5.062E-11	4.095E-09	1.643E-08	2.651E-08	3.281E-08	3.048E-08	2.651E-08	2.281E-08	1.972E-08	1.722E-08	1.519E-08
E	6.374E-16	6.486E-10	1.085E-08	2.169E-08	2.939E-08	2.807E-08	2.483E-08	2.163E-08	1.891E-08	1.666E-08	1.483E-08
ESE	7.742E-09	3.473E-08	4.510E-08	5.091E-08	5.244E-08	4.565E-08	3.836E-08	3.234E-08	2.762E-08	2.393E-08	2.104E-08
SE	1.965E-15	1.389E-09	2.064E-08	3.895E-08	4.924E-08	4.499E-08	3.849E-08	3.266E-08	2.792E-08	2.413E-08	2.111E-08
SSE	3.340E-10	1.974E-08	4.637E-08	5.684E-08	5.911E-08	5.201E-08	4.408E-08	3.731E-08	3.187E-08	2.755E-08	2.412E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.737E-08	2.311E-08	1.541E-08	9.107E-09	6.717E-09	5.230E-09	4.070E-09	3.289E-09	2.773E-09	2.374E-09	2.044E-09
SSW	1.876E-08	1.265E-08	8.086E-09	4.531E-09	3.084E-09	2.254E-09	1.734E-09	1.389E-09	1.146E-09	9.670E-10	8.305E-10
SW	1.335E-08	1.095E-08	7.243E-09	4.241E-09	3.096E-09	2.398E-09	1.936E-09	1.562E-09	1.297E-09	1.100E-09	9.490E-10
WSW	4.352E-09	4.301E-09	3.692E-09	2.697E-09	1.838E-09	1.361E-09	1.062E-09	8.577E-10	7.114E-10	6.020E-10	5.177E-10
W	8.610E-09	4.591E-09	3.219E-09	2.059E-09	1.509E-09	1.096E-09	8.387E-10	6.683E-10	5.485E-10	4.603E-10	3.932E-10
WNW	1.667E-08	9.992E-09	7.046E-09	4.451E-09	3.098E-09	2.333E-09	1.853E-09	1.516E-09	1.268E-09	1.081E-09	9.378E-10
NW	3.302E-08	1.877E-08	1.297E-08	7.969E-09	5.364E-09	3.944E-09	3.127E-09	2.539E-09	2.105E-09	1.783E-09	1.535E-09
NNW	4.570E-08	2.569E-08	1.663E-08	9.489E-09	6.379E-09	4.688E-09	3.668E-09	2.978E-09	2.498E-09	2.123E-09	1.831E-09
N	2.780E-08	1.810E-08	1.562E-08	1.294E-08	1.052E-08	8.352E-09	6.484E-09	5.218E-09	4.314E-09	3.646E-09	3.134E-09
NNE	3.361E-08	6.668E-08	4.356E-08	2.518E-08	1.709E-08	1.265E-08	9.887E-09	8.023E-09	6.690E-09	5.696E-09	4.929E-09
NE	2.856E-08	5.749E-08	3.769E-08	2.189E-08	1.489E-08	1.104E-08	8.781E-09	7.207E-09	6.076E-09	5.167E-09	4.466E-09
ENE	1.658E-08	2.689E-08	1.781E-08	1.046E-08	7.156E-09	5.327E-09	4.390E-09	3.676E-09	3.064E-09	2.608E-09	2.257E-09
E	1.675E-08	3.453E-08	2.316E-08	1.381E-08	9.550E-09	7.160E-09	5.652E-09	4.623E-09	4.059E-09	3.583E-09	3.108E-09
ESE	2.265E-08	3.834E-08	2.605E-08	1.576E-08	1.098E-08	8.266E-09	6.543E-09	5.360E-09	4.503E-09	3.858E-09	3.355E-09
SE	1.867E-08	1.176E-08	9.401E-09	7.174E-09	5.412E-09	4.375E-09	3.692E-09	3.202E-09	2.682E-09	2.292E-09	1.991E-09
SSE	2.646E-08	4.089E-08	2.661E-08	1.530E-08	1.034E-08	7.631E-09	5.947E-09	4.813E-09	4.003E-09	3.400E-09	2.935E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.683E-08	3.760E-08	2.890E-08	2.305E-08	2.719E-08	2.063E-08	9.446E-09	5.163E-09	3.316E-09	2.370E-09
SSW	1.484E-08	2.738E-08	2.551E-08	2.539E-08	2.077E-08	1.198E-08	4.678E-09	2.267E-09	1.395E-09	9.695E-10
SW	2.670E-08	5.747E-08	3.613E-08	2.148E-08	1.493E-08	9.835E-09	4.399E-09	2.399E-09	1.568E-09	1.103E-09
WSW	8.133E-09	1.795E-08	1.086E-08	6.522E-09	4.721E-09	4.041E-09	2.536E-09	1.368E-09	8.604E-10	6.032E-10
W	4.810E-08	5.475E-08	2.819E-08	1.580E-08	1.031E-08	4.874E-09	2.072E-09	1.103E-09	6.713E-10	4.616E-10
WNW	1.381E-08	5.832E-08	4.192E-08	2.787E-08	1.943E-08	1.017E-08	4.426E-09	2.345E-09	1.518E-09	1.083E-09
NW	5.244E-08	1.680E-07	1.026E-07	5.913E-08	3.911E-08	1.936E-08	7.922E-09	3.996E-09	2.542E-09	1.787E-09
NNW	3.394E-08	8.412E-08	9.341E-08	7.848E-08	5.423E-08	2.611E-08	9.694E-09	4.731E-09	2.992E-09	2.126E-09
N	5.751E-08	6.551E-08	5.459E-08	4.070E-08	3.121E-08	1.915E-08	1.246E-08	8.183E-09	5.235E-09	3.654E-09
NNE	4.150E-08	5.821E-08	4.944E-08	3.751E-08	3.195E-08	4.906E-08	2.567E-08	1.273E-08	8.048E-09	5.706E-09
NE	2.766E-08	4.651E-08	4.157E-08	3.204E-08	2.731E-08	4.226E-08	2.229E-08	1.116E-08	7.226E-09	5.177E-09
ENE	1.817E-08	3.037E-08	2.609E-08	1.965E-08	1.631E-08	2.057E-08	1.062E-08	5.440E-09	3.647E-09	2.613E-09
E	1.340E-08	2.709E-08	2.442E-08	1.883E-08	1.608E-08	2.552E-08	1.400E-08	7.194E-09	4.702E-09	3.548E-09
ESE	4.538E-08	4.908E-08	3.790E-08	2.756E-08	2.249E-08	2.939E-08	1.592E-08	8.299E-09	5.372E-09	3.863E-09
SE	2.450E-08	4.506E-08	3.789E-08	2.783E-08	2.110E-08	1.225E-08	6.886E-09	4.378E-09	3.144E-09	2.296E-09
SSE	4.511E-08	5.545E-08	4.349E-08	3.178E-08	2.600E-08	3.134E-08	1.561E-08	7.681E-09	4.828E-09	3.406E-09

ERP ELEVATED STACK RELEASES - OCT-DEC 2002
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.183E-10	7.771E-09	2.553E-08	3.695E-08	4.043E-08	3.473E-08	2.855E-08	2.354E-08	1.969E-08	2.360E-08	2.859E-08
SSW	1.055E-15	8.251E-10	1.247E-08	2.365E-08	2.972E-08	2.694E-08	2.286E-08	2.550E-08	2.631E-08	2.280E-08	1.998E-08
SW	3.854E-16	4.495E-10	1.764E-08	4.669E-08	7.393E-08	4.913E-08	3.495E-08	2.628E-08	2.061E-08	1.671E-08	1.391E-08
WSW	6.900E-17	1.028E-10	5.114E-09	1.442E-08	2.375E-08	1.493E-08	1.047E-08	7.915E-09	6.304E-09	5.212E-09	4.430E-09
W	1.963E-14	6.697E-09	4.815E-08	6.842E-08	6.343E-08	3.940E-08	2.682E-08	1.952E-08	1.493E-08	1.185E-08	9.686E-09
WNW	6.108E-16	1.124E-10	5.125E-09	2.716E-08	8.228E-08	5.602E-08	4.071E-08	3.367E-08	2.849E-08	2.309E-08	1.918E-08
NW	4.925E-16	4.422E-10	2.589E-08	9.815E-08	2.408E-07	1.460E-07	9.898E-08	7.425E-08	5.841E-08	4.646E-08	3.803E-08
NNW	9.385E-11	6.254E-09	2.602E-08	5.339E-08	8.905E-08	9.419E-08	9.442E-08	8.905E-08	8.186E-08	6.451E-08	5.240E-08
N	1.058E-08	4.254E-08	5.704E-08	6.378E-08	6.780E-08	6.259E-08	5.466E-08	4.634E-08	3.966E-08	3.437E-08	3.014E-08
NNE	2.563E-10	1.732E-08	4.065E-08	5.322E-08	6.136E-08	5.663E-08	4.921E-08	4.233E-08	3.661E-08	3.198E-08	2.825E-08
NE	1.013E-10	7.691E-09	2.525E-08	3.906E-08	4.937E-08	4.702E-08	4.156E-08	3.611E-08	3.141E-08	2.753E-08	2.436E-08
ENE	5.063E-11	4.066E-09	1.632E-08	2.642E-08	3.253E-08	3.004E-08	2.600E-08	2.228E-08	1.919E-08	1.670E-08	1.470E-08
E	6.375E-16	6.489E-10	1.085E-08	2.171E-08	2.920E-08	2.772E-08	2.439E-08	2.117E-08	1.844E-08	1.621E-08	1.439E-08
ESE	7.745E-09	3.445E-08	4.451E-08	5.045E-08	5.182E-08	4.485E-08	3.747E-08	3.143E-08	2.673E-08	2.308E-08	2.022E-08
SE	1.965E-15	1.389E-09	2.065E-08	3.898E-08	4.889E-08	4.434E-08	3.771E-08	3.183E-08	2.709E-08	2.333E-08	2.033E-08
SSE	3.340E-10	1.958E-08	4.578E-08	5.625E-08	5.832E-08	5.108E-08	4.310E-08	3.634E-08	3.094E-08	2.667E-08	2.328E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.659E-08	2.238E-08	1.452E-08	8.105E-09	5.595E-09	4.135E-09	3.104E-09	2.431E-09	1.995E-09	1.679E-09	1.423E-09
SSW	1.816E-08	1.204E-08	7.472E-09	3.944E-09	2.527E-09	1.785E-09	1.334E-09	1.041E-09	8.393E-10	6.934E-10	5.840E-10
SW	1.279E-08	1.046E-08	6.734E-09	3.724E-09	2.545E-09	1.867E-09	1.464E-09	1.153E-09	9.367E-10	7.790E-10	6.600E-10
WSW	4.241E-09	4.204E-09	3.536E-09	2.498E-09	1.655E-09	1.200E-09	9.211E-10	7.339E-10	6.020E-10	5.049E-10	4.310E-10
W	8.101E-09	4.257E-09	2.963E-09	1.831E-09	1.292E-09	9.158E-10	6.861E-10	5.369E-10	4.337E-10	3.590E-10	3.029E-10
WNW	1.655E-08	9.633E-09	6.567E-09	3.858E-09	2.466E-09	1.766E-09	1.360E-09	1.082E-09	8.831E-10	7.367E-10	6.259E-10
NW	3.228E-08	1.786E-08	1.198E-08	6.946E-09	4.436E-09	3.125E-09	2.403E-09	1.907E-09	1.549E-09	1.287E-09	1.090E-09
NNW	4.451E-08	2.434E-08	1.528E-08	8.180E-09	5.105E-09	3.528E-09	2.623E-09	2.054E-09	1.679E-09	1.395E-09	1.178E-09
N	2.681E-08	1.735E-08	1.504E-08	1.260E-08	1.012E-08	7.725E-09	5.873E-09	4.642E-09	3.777E-09	3.147E-09	2.671E-09
NNE	3.264E-08	6.552E-08	4.155E-08	2.283E-08	1.477E-08	1.052E-08	7.957E-09	6.276E-09	5.103E-09	4.247E-09	3.601E-09
NE	2.783E-08	5.664E-08	3.605E-08	1.983E-08	1.277E-08	9.054E-09	6.966E-09	5.589E-09	4.622E-09	3.863E-09	3.286E-09
ENE	1.609E-08	2.640E-08	1.698E-08	9.364E-09	5.953E-09	4.170E-09	3.259E-09	2.630E-09	2.137E-09	1.777E-09	1.505E-09
E	1.631E-08	3.409E-08	2.220E-08	1.242E-08	7.959E-09	5.606E-09	4.195E-09	3.273E-09	2.755E-09	2.350E-09	1.987E-09
ESE	2.182E-08	3.769E-08	2.490E-08	1.418E-08	9.188E-09	6.522E-09	4.907E-09	3.845E-09	3.104E-09	2.564E-09	2.157E-09
SE	1.793E-08	1.118E-08	8.928E-09	6.848E-09	5.187E-09	4.220E-09	3.590E-09	3.125E-09	2.574E-09	2.169E-09	1.858E-09
SSE	2.561E-08	4.002E-08	2.527E-08	1.377E-08	8.822E-09	6.230E-09	4.679E-09	3.666E-09	2.963E-09	2.452E-09	2.068E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

	SEGMENT BOUNDARIES IN MILES FROM THE SITE								
DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.666E-08	3.712E-08	2.819E-08	2.228E-08	2.637E-08	1.982E-08	8.416E-09	4.112E-09	2.457E-09	1.678E-09
SSW	1.485E-08	2.714E-08	2.500E-08	2.474E-08	2.014E-08	1.137E-08	4.098E-09	1.803E-09	1.048E-09	6.961E-10
SW	2.673E-08	5.686E-08	3.526E-08	2.075E-08	1.433E-08	9.323E-09	3.869E-09	1.887E-09	1.159E-09	7.817E-10
WSW	8.135E-09	1.775E-08	1.064E-08	6.348E-09	4.592E-09	3.915E-09	2.354E-09	1.210E-09	7.372E-10	5.063E-10
W	4.795E-08	5.386E-08	2.726E-08	1.507E-08	9.741E-09	4.536E-09	1.843E-09	9.243E-10	5.402E-10	3.604E-10
WNW	1.380E-08	5.836E-08	4.198E-08	2.791E-08	1.936E-08	9.808E-09	3.842E-09	1.790E-09	1.086E-09	7.390E-10
NW	5.235E-08	1.670E-07	1.016E-07	5.838E-08	3.840E-08	1.845E-08	6.948E-09	3.186E-09	1.912E-09	1.292E-09
NNW	3.379E-08	8.341E-08	9.221E-08	7.731E-08	5.307E-08	2.480E-08	8.392E-09	3.587E-09	2.074E-09	1.399E-09
N	5.681E-08	6.459E-08	5.345E-08	3.955E-08	3.016E-08	1.842E-08	1.204E-08	7.623E-09	4.664E-09	3.158E-09
NNE	4.105E-08	5.745E-08	4.844E-08	3.648E-08	3.098E-08	4.756E-08	2.341E-08	1.063E-08	6.310E-09	4.262E-09
NE	2.749E-08	4.604E-08	4.083E-08	3.127E-08	2.658E-08	4.108E-08	2.030E-08	9.209E-09	5.614E-09	3.874E-09
ENE	1.808E-08	3.006E-08	2.559E-08	1.913E-08	1.581E-08	1.992E-08	9.541E-09	4.281E-09	2.622E-09	1.783E-09
E	1.341E-08	2.688E-08	2.399E-08	1.837E-08	1.564E-08	2.485E-08	1.261E-08	5.669E-09	3.339E-09	2.335E-09
ESE	4.491E-08	4.842E-08	3.702E-08	2.668E-08	2.166E-08	2.848E-08	1.434E-08	6.587E-09	3.866E-09	2.574E-09
SE	2.451E-08	4.467E-08	3.713E-08	2.701E-08	2.033E-08	1.168E-08	6.572E-09	4.226E-09	3.048E-09	2.174E-09
SSE	4.461E-08	5.465E-08	4.252E-08	3.085E-08	2.515E-08	3.026E-08	1.413E-08	6.301E-09	3.687E-09	2.461E-09

ERP ELEVATED STACK RELEASES - OCT-DEC 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.237E-09	1.403E-09	1.780E-09	1.566E-09	9.028E-10	5.901E-10	4.119E-10	3.008E-10	2.271E-10	1.883E-10	1.689E-10
SSW	7.246E-11	4.347E-10	9.256E-10	9.587E-10	5.988E-10	4.015E-10	2.836E-10	2.083E-10	1.999E-10	1.511E-10	1.182E-10
SW	3.721E-11	2.232E-10	4.753E-10	4.923E-10	5.955E-10	3.260E-10	2.026E-10	1.378E-10	9.969E-11	7.542E-11	5.904E-11
WSW	7.833E-12	4.699E-11	1.001E-10	2.309E-10	1.284E-10	6.983E-11	4.319E-11	2.929E-11	2.115E-11	1.598E-11	1.250E-11
W	1.371E-11	4.680E-10	4.932E-10	4.746E-10	2.227E-10	1.212E-10	7.495E-11	5.082E-11	3.669E-11	2.773E-11	2.169E-11
WNW	1.958E-12	1.175E-11	1.048E-10	6.750E-11	4.660E-11	2.728E-11	2.278E-11	2.408E-11	2.799E-11	3.195E-11	3.581E-11
NW	3.721E-11	2.232E-10	4.753E-10	1.293E-09	8.614E-10	4.334E-10	2.640E-10	1.854E-10	1.458E-10	1.247E-10	1.132E-10
NNW	8.027E-10	8.022E-10	9.028E-10	7.504E-10	7.132E-10	3.940E-10	2.602E-10	2.235E-10	1.730E-10	1.450E-10	1.289E-10
N	4.671E-09	3.944E-09	3.566E-09	2.585E-09	1.313E-09	8.196E-10	5.591E-10	4.035E-10	3.029E-10	2.342E-10	1.855E-10
NNE	2.357E-09	2.101E-09	2.058E-09	1.578E-09	8.345E-10	5.292E-10	3.639E-10	2.637E-10	1.984E-10	1.535E-10	1.216E-10
NE	8.360E-10	1.002E-09	1.328E-09	1.191E-09	6.936E-10	4.549E-10	3.180E-10	2.324E-10	1.756E-10	1.361E-10	1.078E-10
ENE	4.346E-10	6.008E-10	8.767E-10	8.157E-10	4.844E-10	3.197E-10	2.242E-10	1.641E-10	1.240E-10	9.621E-11	7.618E-11
E	5.483E-11	3.290E-10	7.004E-10	7.255E-10	4.532E-10	3.039E-10	2.146E-10	1.577E-10	1.194E-10	9.268E-11	7.340E-11
ESE	2.013E-09	2.041E-09	2.332E-09	1.954E-09	1.095E-09	7.087E-10	4.923E-10	3.586E-10	2.705E-10	2.096E-10	1.660E-10
SE	1.312E-10	7.871E-10	1.676E-09	1.736E-09	1.084E-09	7.271E-10	5.136E-10	3.773E-10	2.857E-10	2.218E-10	1.756E-10
SSE	3.179E-09	3.021E-09	3.211E-09	2.587E-09	1.415E-09	9.081E-10	6.282E-10	4.567E-10	3.441E-10	2.665E-10	2.110E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	1.358E-10	1.063E-10	7.438E-11	4.398E-11	2.791E-11	1.922E-11	1.375E-11	1.030E-11	8.054E-12	6.410E-12	5.232E-12
SSW	9.500E-11	7.239E-11	5.027E-11	2.949E-11	1.927E-11	1.308E-11	9.370E-12	7.036E-12	5.471E-12	4.370E-12	3.567E-12
SW	4.792E-11	3.942E-11	2.784E-11	1.656E-11	1.050E-11	7.256E-12	5.107E-12	3.835E-12	2.982E-12	2.382E-12	1.944E-12
WSW	1.005E-11	9.260E-12	6.695E-12	4.136E-12	2.503E-12	1.678E-12	1.203E-12	9.031E-13	7.022E-13	5.609E-13	4.578E-13
W	1.743E-11	7.799E-12	8.746E-12	5.096E-12	3.125E-12	2.332E-12	1.671E-12	1.254E-12	9.754E-13	7.792E-13	6.360E-13
WNW	3.920E-11	3.957E-11	3.367E-11	2.283E-11	1.303E-11	7.258E-12	5.073E-12	3.809E-12	2.962E-12	2.366E-12	1.931E-12
NW	1.071E-10	8.266E-11	6.515E-11	3.788E-11	2.309E-11	1.545E-11	1.086E-11	8.158E-12	6.343E-12	5.067E-12	4.136E-12
NNW	1.194E-10	8.763E-11	6.781E-11	4.327E-11	2.791E-11	1.847E-11	1.144E-11	8.139E-12	6.352E-12	5.077E-12	4.146E-12
N	1.497E-10	7.128E-11	4.371E-11	2.333E-11	6.423E-11	3.749E-11	2.679E-11	2.012E-11	1.565E-11	1.250E-11	1.021E-11
NNE	9.807E-11	2.420E-10	1.507E-10	7.875E-11	4.817E-11	3.224E-11	2.303E-11	1.722E-11	1.335E-11	1.064E-11	8.667E-12
NE	8.688E-11	2.109E-10	1.342E-10	7.172E-11	4.413E-11	2.947E-11	2.025E-11	1.507E-11	1.172E-11	9.418E-12	7.687E-12
ENE	6.138E-11	9.975E-11	7.635E-11	4.833E-11	3.109E-11	2.056E-11	1.438E-11	9.268E-12	7.204E-12	5.754E-12	4.697E-12
E	5.912E-11	1.263E-10	9.942E-11	6.414E-11	4.139E-11	2.731E-11	1.904E-11	1.384E-11	1.046E-11	7.364E-12	5.994E-12
ESE	1.338E-10	1.912E-10	1.441E-10	9.028E-11	5.802E-11	3.846E-11	2.699E-11	1.976E-11	1.504E-11	1.180E-11	9.486E-12
SE	1.415E-10	6.697E-11	4.081E-11	2.145E-11	1.308E-11	9.061E-12	6.883E-12	1.958E-11	1.492E-11	1.172E-11	9.447E-12
SSE	1.702E-10	2.544E-10	1.575E-10	8.159E-11	4.975E-11	3.329E-11	2.378E-11	1.779E-11	1.378E-11	1.098E-11	8.938E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.601E-09	9.113E-10	4.150E-10	2.334E-10	1.624E-10	9.866E-11	4.359E-11	1.935E-11	1.043E-11	6.461E-12
SSW	8.312E-10	5.911E-10	2.850E-10	1.837E-10	1.193E-10	6.758E-11	2.957E-11	1.325E-11	7.107E-12	4.399E-12
SW	4.268E-10	4.528E-10	2.096E-10	1.013E-10	5.978E-11	3.616E-11	1.638E-11	7.263E-12	3.873E-12	2.398E-12
WSW	1.464E-10	1.251E-10	4.473E-11	2.150E-11	1.262E-11	8.295E-12	3.979E-12	1.708E-12	9.122E-13	5.646E-13
W	4.793E-10	2.336E-10	7.762E-11	3.731E-11	2.190E-11	1.036E-11	5.031E-12	2.279E-12	1.267E-12	7.843E-13
WNW	6.755E-11	4.266E-11	2.450E-11	2.838E-11	3.592E-11	3.686E-11	2.088E-11	7.923E-12	3.847E-12	2.381E-12
NW	7.829E-10	7.672E-10	2.777E-10	1.491E-10	1.143E-10	8.031E-11	3.737E-11	1.565E-11	8.240E-12	5.100E-12
NNW	8.127E-10	5.796E-10	2.812E-10	1.768E-10	1.301E-10	8.588E-11	4.190E-11	1.818E-11	8.401E-12	5.110E-12
N	3.214E-09	1.376E-09	5.663E-10	3.055E-10	1.867E-10	7.645E-11	4.604E-11	4.034E-11	2.032E-11	1.258E-11
NNE	1.854E-09	8.639E-10	3.679E-10	1.999E-10	1.223E-10	1.694E-10	8.115E-11	3.281E-11	1.741E-11	1.071E-11
NE	1.195E-09	6.980E-10	3.203E-10	1.768E-10	1.084E-10	1.493E-10	7.334E-11	2.969E-11	1.527E-11	9.458E-12
ENE	7.883E-10	4.848E-10	2.256E-10	1.249E-10	7.664E-11	8.083E-11	4.689E-11	2.089E-11	9.942E-12	5.792E-12
E	6.290E-10	4.473E-10	2.156E-10	1.202E-10	7.382E-11	9.943E-11	6.187E-11	2.776E-11	1.404E-11	7.775E-12
ESE	2.099E-09	1.114E-09	4.965E-10	2.725E-10	1.670E-10	1.575E-10	8.791E-11	3.909E-11	2.003E-11	1.190E-11
SE	1.505E-09	1.070E-09	5.160E-10	2.875E-10	1.766E-10	7.190E-11	2.203E-11	9.261E-12	1.418E-11	1.183E-11
SSE	2.892E-09	1.450E-09	6.342E-10	3.467E-10	2.123E-10	1.926E-10	8.430E-11	3.387E-11	1.797E-11	1.105E-11

ERP ELEVATED STACK RELEASES - OCT-DEC 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	2.9E-08	2.9E-08	2.8E-08	1.8E-09
A	Site Boundary	SSW	.82	1.6E-08	1.6E-08	1.6E-08	9.9E-10
A	Site Boundary	SW	.97	4.4E-08	4.4E-08	4.4E-08	5.1E-10
A	Site Boundary	WSW	.93	1.2E-08	1.2E-08	1.2E-08	1.1E-10
A	Site Boundary	W	.91	6.5E-08	6.4E-08	6.4E-08	4.0E-10
A	Site Boundary	WNW	.94	2.0E-08	2.0E-08	2.0E-08	7.5E-11
A	Site Boundary	NW	.81	4.0E-08	4.0E-08	4.0E-08	5.0E-10
A	Site Boundary	NNW	.69	1.9E-08	1.9E-08	1.9E-08	8.7E-10
A	Site Boundary	N	.67	5.2E-08	5.2E-08	5.1E-08	3.6E-09
A	Site Boundary	NNE	.60	2.6E-08	2.6E-08	2.6E-08	2.0E-09
A	Site Boundary	NE	.62	1.5E-08	1.5E-08	1.5E-08	1.2E-09
A	Site Boundary	ENE	.59	7.2E-09	7.2E-09	7.1E-09	6.9E-10
A	Site Boundary	E	.53	1.0E-09	1.0E-09	1.0E-09	3.6E-10
A	Site Boundary	ESE	.54	3.6E-08	3.5E-08	3.5E-08	2.1E-09
A	Site Boundary	SE	.65	1.0E-08	1.0E-08	1.0E-08	1.3E-09
A	Site Boundary	SSE	.81	5.0E-08	5.0E-08	4.9E-08	3.1E-09
A	Nearest Res	SW	1.30	6.9E-08	6.9E-08	6.9E-08	7.9E-10
A	Nearest Res	WSW	2.50	1.1E-08	1.1E-08	1.0E-08	4.3E-11
A	Nearest Res	W	1.00	6.9E-08	6.9E-08	6.8E-08	4.7E-10
A	Nearest Res	WNW	1.70	7.0E-08	7.0E-08	7.0E-08	3.6E-11
A	Nearest Res	NW	.90	6.5E-08	6.5E-08	6.5E-08	1.4E-09
A	Nearest Res	NNW	1.90	9.5E-08	9.5E-08	9.4E-08	4.4E-10
A	Nearest Res	N	3.00	4.8E-08	4.8E-08	4.6E-08	4.0E-10
A	Nearest Res	ENE	1.70	3.2E-08	3.2E-08	3.2E-08	4.1E-10
A	Nearest Res	E	1.80	2.9E-08	2.9E-08	2.9E-08	3.5E-10
A	Nearest Res	ESE	2.30	4.1E-08	4.1E-08	4.0E-08	5.7E-10
A	Nearest Cow	NNW	3.50	8.4E-08	8.3E-08	8.2E-08	1.7E-10
A	Nearest Garde	SW	1.30	6.9E-08	6.9E-08	6.9E-08	7.9E-10
A	Nearest Garde	WSW	1.90	1.7E-08	1.6E-08	1.6E-08	7.8E-11
A	Nearest Garde	WNW	2.40	4.3E-08	4.3E-08	4.3E-08	2.3E-11
A	Nearest Garde	NW	2.90	8.0E-08	7.9E-08	7.8E-08	2.0E-10
A	Nearest Garde	NNW	1.90	9.5E-08	9.5E-08	9.4E-08	4.4E-10
A	Nearest Garde	N	3.00	4.8E-08	4.8E-08	4.6E-08	4.0E-10
A	Nearest Garde	ESE	2.30	4.1E-08	4.1E-08	4.0E-08	5.7E-10
A	MAXIMUM CHI/Q	S	1.50	4.1E-08	4.1E-08	4.0E-08	9.0E-10
A	MAXIMUM CHI/Q	SSW	1.50	3.0E-08	3.0E-08	3.0E-08	6.0E-10
A	MAXIMUM CHI/Q	SW	1.50	7.5E-08	7.5E-08	7.4E-08	6.0E-10
A	MAXIMUM CHI/Q	WSW	1.50	2.4E-08	2.4E-08	2.4E-08	1.3E-10
A	MAXIMUM CHI/Q	W	1.00	6.9E-08	6.9E-08	6.8E-08	4.7E-10
A	MAXIMUM CHI/Q	WNW	1.50	8.2E-08	8.2E-08	8.2E-08	4.7E-11
A	MAXIMUM CHI/Q	NW	1.50	2.4E-07	2.4E-07	2.4E-07	8.6E-10
A	MAXIMUM CHI/Q	NNW	2.50	9.6E-08	9.6E-08	9.4E-08	2.6E-10
A	MAXIMUM CHI/Q	N	1.50	6.9E-08	6.9E-08	6.8E-08	1.3E-09
A	MAXIMUM CHI/Q	NNE	7.50	6.8E-08	6.7E-08	6.6E-08	2.4E-10
A	MAXIMUM CHI/Q	NE	7.50	5.8E-08	5.7E-08	5.7E-08	2.1E-10
A	MAXIMUM CHI/Q	ENE	1.50	3.3E-08	3.3E-08	3.3E-08	4.8E-10
A	MAXIMUM CHI/Q	E	7.50	3.5E-08	3.5E-08	3.4E-08	1.3E-10
A	MAXIMUM CHI/Q	ESE	1.50	5.3E-08	5.2E-08	5.2E-08	1.1E-09
A	MAXIMUM CHI/Q	SE	1.50	4.9E-08	4.9E-08	4.9E-08	1.1E-09
A	MAXIMUM CHI/Q	SSE	1.50	5.9E-08	5.9E-08	5.8E-08	1.4E-09

Atmospheric Diffusion Estimates

Elevated Releases

July-December 2002

ERP ELEVATED STACK RELEASES - JUL-DEC 2002
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.057E-09	1.862E-08	3.737E-08	4.283E-08	4.258E-08	3.661E-08	3.053E-08	2.555E-08	2.165E-08	2.637E-08	3.106E-08
SSW	9.105E-10	9.041E-09	2.077E-08	2.798E-08	3.212E-08	2.935E-08	2.533E-08	2.928E-08	3.177E-08	2.838E-08	2.560E-08
SW	4.059E-11	3.184E-09	2.185E-08	5.149E-08	9.213E-08	6.383E-08	4.672E-08	3.587E-08	2.860E-08	2.349E-08	1.976E-08
WSW	9.851E-11	6.809E-09	2.759E-08	5.797E-08	1.129E-07	7.365E-08	5.211E-08	3.917E-08	3.078E-08	2.503E-08	2.089E-08
W	4.554E-10	2.604E-08	8.569E-08	1.095E-07	1.050E-07	6.624E-08	4.583E-08	3.388E-08	2.627E-08	2.112E-08	1.746E-08
WNW	7.378E-09	2.972E-08	1.226E-07	2.164E-07	2.945E-07	1.815E-07	1.239E-07	9.504E-08	7.585E-08	6.018E-08	4.922E-08
NW	1.770E-08	7.544E-08	1.723E-07	3.065E-07	5.073E-07	2.979E-07	1.975E-07	1.448E-07	1.117E-07	8.809E-08	7.170E-08
NNW	1.565E-08	6.430E-08	1.045E-07	1.300E-07	1.679E-07	1.631E-07	1.528E-07	1.393E-07	1.272E-07	1.005E-07	8.203E-08
N	3.274E-08	1.011E-07	1.267E-07	1.207E-07	1.108E-07	9.755E-08	8.355E-08	7.012E-08	5.958E-08	5.133E-08	4.479E-08
NNE	1.649E-09	1.739E-08	3.632E-08	4.700E-08	5.481E-08	5.151E-08	4.549E-08	3.965E-08	3.467E-08	3.055E-08	2.718E-08
NE	1.668E-09	7.911E-09	1.818E-08	2.738E-08	3.419E-08	3.220E-08	2.823E-08	2.441E-08	2.118E-08	1.853E-08	1.638E-08
ENE	4.059E-11	3.171E-09	1.125E-08	1.733E-08	2.065E-08	1.877E-08	1.608E-08	1.369E-08	1.175E-08	1.020E-08	8.969E-09
E	3.762E-11	2.674E-09	9.154E-09	1.417E-08	1.743E-08	1.624E-08	1.418E-08	1.225E-08	1.064E-08	9.324E-09	8.264E-09
ESE	3.105E-09	1.404E-08	2.014E-08	2.482E-08	2.739E-08	2.452E-08	2.090E-08	1.776E-08	1.524E-08	1.325E-08	1.166E-08
SE	1.004E-15	7.799E-10	1.202E-08	2.314E-08	3.000E-08	2.787E-08	2.413E-08	2.066E-08	1.779E-08	1.547E-08	1.360E-08
SSE	1.975E-09	2.535E-08	4.782E-08	5.349E-08	5.220E-08	4.469E-08	3.724E-08	3.114E-08	2.637E-08	2.263E-08	1.970E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.835E-08	2.081E-08	1.370E-08	8.002E-09	5.741E-09	4.409E-09	3.455E-09	2.815E-09	2.382E-09	2.052E-09	1.785E-09
SSW	2.409E-08	1.861E-08	1.211E-08	6.962E-09	4.912E-09	3.677E-09	2.866E-09	2.325E-09	1.941E-09	1.656E-09	1.437E-09
SW	1.835E-08	1.469E-08	9.748E-09	5.747E-09	4.182E-09	3.243E-09	2.631E-09	2.144E-09	1.797E-09	1.538E-09	1.340E-09
WSW	1.874E-08	1.314E-08	9.709E-09	6.274E-09	4.272E-09	3.178E-09	2.499E-09	2.040E-09	1.712E-09	1.468E-09	1.280E-09
W	1.476E-08	8.092E-09	5.812E-09	3.822E-09	2.856E-09	2.123E-09	1.659E-09	1.348E-09	1.127E-09	9.626E-10	8.366E-10
WNW	4.166E-08	2.301E-08	1.546E-08	9.218E-09	6.274E-09	4.658E-09	3.659E-09	2.977E-09	2.485E-09	2.118E-09	1.838E-09
NW	6.042E-08	3.297E-08	2.217E-08	1.323E-08	8.916E-09	6.578E-09	5.206E-09	4.244E-09	3.544E-09	3.025E-09	2.626E-09
NNW	7.015E-08	4.004E-08	2.608E-08	1.506E-08	1.025E-08	7.620E-09	6.040E-09	4.963E-09	4.219E-09	3.626E-09	3.157E-09
N	3.966E-08	2.514E-08	2.075E-08	1.628E-08	1.328E-08	1.079E-08	8.480E-09	6.902E-09	5.765E-09	4.921E-09	4.273E-09
NNE	3.157E-08	5.305E-08	3.460E-08	2.003E-08	1.364E-08	1.015E-08	7.982E-09	6.520E-09	5.476E-09	4.696E-09	4.095E-09
NE	1.854E-08	3.492E-08	2.295E-08	1.343E-08	9.213E-09	6.893E-09	5.529E-09	4.580E-09	3.901E-09	3.352E-09	2.927E-09
ENE	9.708E-09	1.495E-08	9.908E-09	5.835E-09	4.015E-09	3.007E-09	2.482E-09	2.086E-09	1.752E-09	1.503E-09	1.310E-09
E	9.196E-09	1.706E-08	1.144E-08	6.836E-09	4.749E-09	3.583E-09	2.848E-09	2.347E-09	2.068E-09	1.835E-09	1.605E-09
ESE	1.251E-08	1.997E-08	1.359E-08	8.273E-09	5.808E-09	4.413E-09	3.526E-09	2.917E-09	2.475E-09	2.142E-09	1.882E-09
SE	1.209E-08	7.745E-09	6.317E-09	5.007E-09	3.876E-09	3.214E-09	2.779E-09	2.468E-09	2.092E-09	1.808E-09	1.587E-09
SSE	2.121E-08	2.898E-08	1.883E-08	1.085E-08	7.379E-09	5.482E-09	4.307E-09	3.515E-09	2.950E-09	2.529E-09	2.204E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.563E-08	3.998E-08	3.016E-08	2.456E-08	2.866E-08	1.933E-08	8.264E-09	4.383E-09	2.833E-09	2.051E-09
SSW	2.137E-08	2.997E-08	2.798E-08	2.977E-08	2.587E-08	1.694E-08	7.195E-09	3.682E-09	2.333E-09	1.659E-09
SW	3.088E-08	7.052E-08	4.694E-08	2.873E-08	2.034E-08	1.331E-08	5.941E-09	3.248E-09	2.151E-09	1.541E-09
WSW	3.648E-08	8.326E-08	5.268E-08	3.099E-08	2.132E-08	1.286E-08	6.147E-09	3.198E-09	2.046E-09	1.470E-09
W	8.303E-08	8.878E-08	4.649E-08	2.648E-08	1.755E-08	8.560E-09	3.835E-09	2.133E-09	1.352E-09	9.646E-10
WNW	1.436E-07	2.269E-07	1.277E-07	7.536E-08	4.967E-08	2.380E-08	9.298E-09	4.689E-09	2.984E-09	2.123E-09
NW	2.104E-07	3.696E-07	2.032E-07	1.122E-07	7.238E-08	3.427E-08	1.330E-08	6.653E-09	4.252E-09	3.031E-09
NNW	1.069E-07	1.573E-07	1.501E-07	1.205E-07	8.312E-08	4.053E-08	1.537E-08	7.690E-09	4.987E-09	3.628E-09
N	1.184E-07	1.071E-07	8.191E-08	5.945E-08	4.483E-08	2.642E-08	1.594E-08	1.053E-08	6.920E-09	4.931E-09
NNE	3.686E-08	5.161E-08	4.476E-08	3.452E-08	2.981E-08	4.008E-08	2.043E-08	1.021E-08	6.540E-09	4.705E-09
NE	1.999E-08	3.179E-08	2.776E-08	2.109E-08	1.782E-08	2.596E-08	1.367E-08	6.966E-09	4.593E-09	3.358E-09
ENE	1.215E-08	1.907E-08	1.584E-08	1.172E-08	9.609E-09	1.155E-08	5.931E-09	3.066E-09	2.072E-09	1.505E-09
E	9.945E-09	1.618E-08	1.396E-08	1.060E-08	8.924E-09	1.281E-08	6.931E-09	3.600E-09	2.384E-09	1.819E-09
ESE	2.086E-08	2.554E-08	2.061E-08	1.520E-08	1.245E-08	1.548E-08	8.360E-09	4.430E-09	2.923E-09	2.144E-09
SE	1.446E-08	2.753E-08	2.374E-08	1.772E-08	1.360E-08	8.075E-09	4.796E-09	3.217E-09	2.414E-09	1.810E-09
SSE	4.535E-08	4.915E-08	3.679E-08	2.631E-08	2.113E-08	2.274E-08	1.108E-08	5.518E-09	3.526E-09	2.533E-09

ERP ELEVATED STACK RELEASES - JUL-DEC 2002
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.056E-09	1.861E-08	3.733E-08	4.277E-08	4.249E-08	3.650E-08	3.042E-08	2.543E-08	2.154E-08	2.621E-08	3.083E-08
SSW	9.103E-10	9.036E-09	2.075E-08	2.793E-08	3.203E-08	2.924E-08	2.522E-08	2.912E-08	3.157E-08	2.817E-08	2.539E-08
SW	4.058E-11	3.182E-09	2.183E-08	5.140E-08	9.189E-08	6.361E-08	4.652E-08	3.568E-08	2.842E-08	2.332E-08	1.960E-08
WSW	9.848E-11	6.805E-09	2.756E-08	5.787E-08	1.125E-07	7.327E-08	5.176E-08	3.885E-08	3.048E-08	2.474E-08	2.062E-08
W	4.552E-10	2.601E-08	8.556E-08	1.093E-07	1.047E-07	6.595E-08	4.558E-08	3.366E-08	2.607E-08	2.094E-08	1.729E-08
WNW	7.376E-09	2.970E-08	1.224E-07	2.161E-07	2.939E-07	1.810E-07	1.234E-07	9.463E-08	7.546E-08	5.983E-08	4.889E-08
NW	1.770E-08	7.540E-08	1.722E-07	3.061E-07	5.063E-07	2.972E-07	1.969E-07	1.442E-07	1.112E-07	8.761E-08	7.126E-08
NNW	1.565E-08	6.427E-08	1.044E-07	1.298E-07	1.675E-07	1.626E-07	1.522E-07	1.386E-07	1.265E-07	9.990E-08	8.144E-08
N	3.273E-08	1.011E-07	1.266E-07	1.206E-07	1.105E-07	9.726E-08	8.323E-08	6.979E-08	5.926E-08	5.101E-08	4.448E-08
NNE	1.649E-09	1.738E-08	3.628E-08	4.693E-08	5.466E-08	5.131E-08	4.526E-08	3.942E-08	3.443E-08	3.030E-08	2.694E-08
NE	1.667E-09	7.907E-09	1.816E-08	2.734E-08	3.410E-08	3.208E-08	2.810E-08	2.428E-08	2.104E-08	1.839E-08	1.624E-08
ENE	4.058E-11	3.169E-09	1.124E-08	1.730E-08	2.060E-08	1.870E-08	1.602E-08	1.362E-08	1.168E-08	1.013E-08	8.898E-09
E	3.761E-11	2.672E-09	9.145E-09	1.415E-08	1.738E-08	1.618E-08	1.411E-08	1.218E-08	1.056E-08	9.253E-09	8.193E-09
ESE	3.103E-09	1.403E-08	2.011E-08	2.478E-08	2.733E-08	2.444E-08	2.082E-08	1.768E-08	1.516E-08	1.317E-08	1.159E-08
SE	1.004E-15	7.795E-10	1.201E-08	2.311E-08	2.995E-08	2.780E-08	2.405E-08	2.058E-08	1.771E-08	1.539E-08	1.353E-08
SSE	1.974E-09	2.534E-08	4.779E-08	5.343E-08	5.212E-08	4.459E-08	3.713E-08	3.103E-08	2.625E-08	2.252E-08	1.959E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.811E-08	2.050E-08	1.342E-08	7.749E-09	5.489E-09	4.161E-09	3.222E-09	2.594E-09	2.168E-09	1.845E-09	1.586E-09
SSW	2.386E-08	1.830E-08	1.184E-08	6.726E-09	4.684E-09	3.461E-09	2.666E-09	2.136E-09	1.762E-09	1.485E-09	1.273E-09
SW	1.819E-08	1.447E-08	9.551E-09	5.570E-09	4.006E-09	3.070E-09	2.460E-09	1.982E-09	1.642E-09	1.391E-09	1.197E-09
WSW	1.846E-08	1.283E-08	9.391E-09	5.956E-09	3.985E-09	2.912E-09	2.250E-09	1.805E-09	1.488E-09	1.254E-09	1.074E-09
W	1.460E-08	7.957E-09	5.679E-09	3.684E-09	2.712E-09	1.989E-09	1.533E-09	1.230E-09	1.015E-09	8.556E-10	7.340E-10
WNW	4.136E-08	2.276E-08	1.523E-08	9.014E-09	6.089E-09	4.486E-09	3.498E-09	2.824E-09	2.340E-09	1.980E-09	1.705E-09
NW	6.001E-08	3.261E-08	2.184E-08	1.292E-08	8.631E-09	6.314E-09	4.952E-09	4.001E-09	3.313E-09	2.803E-09	2.413E-09
NNW	6.958E-08	3.956E-08	2.567E-08	1.471E-08	9.934E-09	7.328E-09	5.764E-09	4.700E-09	3.966E-09	3.383E-09	2.923E-09
N	3.935E-08	2.484E-08	2.043E-08	1.587E-08	1.281E-08	1.028E-08	7.998E-09	6.445E-09	5.331E-09	4.507E-09	3.876E-09
NNE	3.126E-08	5.221E-08	3.388E-08	1.940E-08	1.308E-08	9.630E-09	7.494E-09	6.059E-09	5.036E-09	4.275E-09	3.690E-09
NE	1.837E-08	3.432E-08	2.243E-08	1.296E-08	8.790E-09	6.499E-09	5.149E-09	4.214E-09	3.545E-09	3.009E-09	2.597E-09
ENE	9.622E-09	1.475E-08	9.729E-09	5.678E-09	3.872E-09	2.875E-09	2.352E-09	1.960E-09	1.632E-09	1.388E-09	1.200E-09
E	9.107E-09	1.679E-08	1.120E-08	6.620E-09	4.550E-09	3.396E-09	2.671E-09	2.178E-09	1.898E-09	1.667E-09	1.442E-09
ESE	1.241E-08	1.967E-08	1.332E-08	8.010E-09	5.558E-09	4.173E-09	3.295E-09	2.694E-09	2.259E-09	1.931E-09	1.677E-09
SE	1.201E-08	7.669E-09	6.232E-09	4.899E-09	3.758E-09	3.084E-09	2.637E-09	2.313E-09	1.942E-09	1.662E-09	1.444E-09
SSE	2.108E-08	2.855E-08	1.846E-08	1.052E-08	7.078E-09	5.201E-09	4.041E-09	3.262E-09	2.708E-09	2.295E-09	1.979E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.559E-08	3.989E-08	3.005E-08	2.443E-08	2.845E-08	1.904E-08	8.005E-09	4.139E-09	2.611E-09	1.844E-09
SSW	2.134E-08	2.988E-08	2.785E-08	2.957E-08	2.565E-08	1.667E-08	6.954E-09	3.469E-09	2.145E-09	1.489E-09
SW	3.083E-08	7.033E-08	4.674E-08	2.855E-08	2.018E-08	1.311E-08	5.760E-09	3.076E-09	1.989E-09	1.394E-09
WSW	3.642E-08	8.292E-08	5.233E-08	3.069E-08	2.104E-08	1.255E-08	5.843E-09	2.934E-09	1.811E-09	1.257E-09
W	8.287E-08	8.849E-08	4.624E-08	2.628E-08	1.737E-08	8.420E-09	3.695E-09	1.999E-09	1.234E-09	8.577E-10
WNW	1.434E-07	2.264E-07	1.273E-07	7.498E-08	4.934E-08	2.355E-08	9.097E-09	4.518E-09	2.832E-09	1.984E-09
NW	2.102E-07	3.689E-07	2.025E-07	1.116E-07	7.194E-08	3.391E-08	1.299E-08	6.387E-09	4.011E-09	2.810E-09
NNW	1.068E-07	1.569E-07	1.495E-07	1.198E-07	8.252E-08	4.006E-08	1.502E-08	7.397E-09	4.724E-09	3.385E-09
N	1.183E-07	1.069E-07	8.159E-08	5.912E-08	4.451E-08	2.610E-08	1.552E-08	1.004E-08	6.465E-09	4.517E-09
NNE	3.681E-08	5.145E-08	4.454E-08	3.428E-08	2.954E-08	3.941E-08	1.981E-08	9.695E-09	6.079E-09	4.284E-09
NE	1.996E-08	3.170E-08	2.763E-08	2.095E-08	1.767E-08	2.549E-08	1.321E-08	6.570E-09	4.226E-09	3.015E-09
ENE	1.214E-08	1.902E-08	1.578E-08	1.165E-08	9.522E-09	1.138E-08	5.776E-09	2.932E-09	1.947E-09	1.390E-09
E	9.931E-09	1.613E-08	1.389E-08	1.053E-08	8.846E-09	1.260E-08	6.717E-09	3.414E-09	2.212E-09	1.652E-09
ESE	2.083E-08	2.548E-08	2.053E-08	1.512E-08	1.236E-08	1.523E-08	8.099E-09	4.191E-09	2.700E-09	1.934E-09
SE	1.445E-08	2.748E-08	2.366E-08	1.765E-08	1.352E-08	7.995E-09	4.688E-09	3.085E-09	2.264E-09	1.664E-09
SSE	4.531E-08	4.906E-08	3.668E-08	2.620E-08	2.101E-08	2.241E-08	1.076E-08	5.238E-09	3.273E-09	2.300E-09

ERP ELEVATED STACK RELEASES - JUL-DEC 2002
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.056E-09	1.846E-08	3.678E-08	4.222E-08	4.185E-08	3.578E-08	2.967E-08	2.469E-08	2.082E-08	2.541E-08	3.003E-08
SSW	9.105E-10	8.964E-09	2.052E-08	2.771E-08	3.168E-08	2.878E-08	2.470E-08	2.849E-08	3.089E-08	2.752E-08	2.478E-08
SW	4.059E-11	3.159E-09	2.173E-08	5.134E-08	9.118E-08	6.273E-08	4.567E-08	3.491E-08	2.773E-08	2.271E-08	1.905E-08
WSW	9.850E-11	6.749E-09	2.729E-08	5.759E-08	1.117E-07	7.251E-08	5.110E-08	3.828E-08	3.001E-08	2.434E-08	2.027E-08
W	4.554E-10	2.573E-08	8.486E-08	1.081E-07	1.030E-07	6.456E-08	4.443E-08	3.270E-08	2.526E-08	2.024E-08	1.668E-08
WNW	7.377E-09	2.950E-08	1.218E-07	2.142E-07	2.903E-07	1.778E-07	1.207E-07	9.235E-08	7.352E-08	5.808E-08	4.727E-08
NW	1.770E-08	7.476E-08	1.699E-07	3.032E-07	5.010E-07	2.923E-07	1.928E-07	1.408E-07	1.083E-07	8.503E-08	6.885E-08
NNW	1.565E-08	6.372E-08	1.027E-07	1.282E-07	1.655E-07	1.602E-07	1.498E-07	1.363E-07	1.245E-07	9.798E-08	7.953E-08
N	3.274E-08	1.002E-07	1.243E-07	1.186E-07	1.086E-07	9.530E-08	8.126E-08	6.790E-08	5.747E-08	4.932E-08	4.290E-08
NNE	1.649E-09	1.724E-08	3.581E-08	4.649E-08	5.406E-08	5.054E-08	4.442E-08	3.855E-08	3.358E-08	2.949E-08	2.617E-08
NE	1.667E-09	7.844E-09	1.801E-08	2.722E-08	3.381E-08	3.163E-08	2.757E-08	2.372E-08	2.048E-08	1.785E-08	1.573E-08
ENE	4.059E-11	3.145E-09	1.115E-08	1.722E-08	2.040E-08	1.841E-08	1.568E-08	1.327E-08	1.133E-08	9.795E-09	8.576E-09
E	3.762E-11	2.653E-09	9.071E-09	1.408E-08	1.722E-08	1.595E-08	1.384E-08	1.189E-08	1.028E-08	8.978E-09	7.931E-09
ESE	3.104E-09	1.392E-08	1.988E-08	2.460E-08	2.705E-08	2.405E-08	2.037E-08	1.721E-08	1.470E-08	1.272E-08	1.116E-08
SE	1.004E-15	7.797E-10	1.202E-08	2.313E-08	2.975E-08	2.742E-08	2.359E-08	2.009E-08	1.721E-08	1.491E-08	1.306E-08
SSE	1.975E-09	2.513E-08	4.708E-08	5.274E-08	5.132E-08	4.370E-08	3.621E-08	3.013E-08	2.539E-08	2.171E-08	1.882E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.737E-08	1.976E-08	1.258E-08	6.853E-09	4.539E-09	3.266E-09	2.441E-09	1.905E-09	1.551E-09	1.295E-09	1.094E-09
SSW	2.330E-08	1.771E-08	1.113E-08	5.962E-09	3.903E-09	2.798E-09	2.102E-09	1.648E-09	1.333E-09	1.105E-09	9.325E-10
SW	1.769E-08	1.399E-08	8.974E-09	4.929E-09	3.305E-09	2.395E-09	1.866E-09	1.468E-09	1.191E-09	9.898E-10	8.378E-10
WSW	1.817E-08	1.250E-08	8.926E-09	5.443E-09	3.532E-09	2.521E-09	1.910E-09	1.507E-09	1.226E-09	1.021E-09	8.660E-10
W	1.406E-08	7.617E-09	5.394E-09	3.340E-09	2.346E-09	1.675E-09	1.263E-09	9.934E-10	8.061E-10	6.698E-10	5.670E-10
WNW	3.980E-08	2.130E-08	1.384E-08	7.685E-09	4.826E-09	3.392E-09	2.563E-09	2.014E-09	1.629E-09	1.348E-09	1.138E-09
NW	5.771E-08	3.051E-08	1.984E-08	1.110E-08	7.089E-09	4.995E-09	3.803E-09	2.998E-09	2.428E-09	2.014E-09	1.702E-09
NNW	6.766E-08	3.744E-08	2.355E-08	1.264E-08	7.914E-09	5.482E-09	4.093E-09	3.217E-09	2.642E-09	2.201E-09	1.861E-09
N	3.787E-08	2.374E-08	1.955E-08	1.531E-08	1.220E-08	9.442E-09	7.190E-09	5.688E-09	4.628E-09	3.856E-09	3.273E-09
NNE	3.048E-08	5.127E-08	3.230E-08	1.757E-08	1.129E-08	8.001E-09	6.026E-09	4.736E-09	3.839E-09	3.187E-09	2.695E-09
NE	1.784E-08	3.374E-08	2.141E-08	1.173E-08	7.534E-09	5.331E-09	4.087E-09	3.270E-09	2.699E-09	2.252E-09	1.914E-09
ENE	9.294E-09	1.442E-08	9.238E-09	5.070E-09	3.216E-09	2.249E-09	1.746E-09	1.403E-09	1.139E-09	9.467E-10	8.016E-10
E	8.843E-09	1.655E-08	1.071E-08	5.953E-09	3.800E-09	2.669E-09	1.993E-09	1.552E-09	1.298E-09	1.102E-09	9.299E-10
ESE	1.198E-08	1.933E-08	1.272E-08	7.213E-09	4.662E-09	3.303E-09	2.481E-09	1.942E-09	1.566E-09	1.292E-09	1.086E-09
SE	1.157E-08	7.330E-09	5.959E-09	4.722E-09	3.644E-09	3.016E-09	2.604E-09	2.300E-09	1.905E-09	1.612E-09	1.388E-09
SSE	2.029E-08	2.776E-08	1.742E-08	9.422E-09	6.021E-09	4.244E-09	3.182E-09	2.490E-09	2.011E-09	1.663E-09	1.402E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.513E-08	3.924E-08	2.931E-08	2.367E-08	2.767E-08	1.826E-08	7.098E-09	3.276E-09	1.923E-09	1.296E-09
SSW	2.115E-08	2.951E-08	2.730E-08	2.892E-08	2.504E-08	1.603E-08	6.195E-09	2.814E-09	1.658E-09	1.109E-09
SW	3.076E-08	6.968E-08	4.591E-08	2.787E-08	1.963E-08	1.258E-08	5.106E-09	2.426E-09	1.476E-09	9.932E-10
WSW	3.619E-08	8.227E-08	5.168E-08	3.021E-08	2.070E-08	1.217E-08	5.368E-09	2.546E-09	1.515E-09	1.025E-09
W	8.206E-08	8.706E-08	4.511E-08	2.547E-08	1.676E-08	8.060E-09	3.355E-09	1.689E-09	9.991E-10	6.721E-10
WNW	1.424E-07	2.234E-07	1.246E-07	7.302E-08	4.771E-08	2.210E-08	7.782E-09	3.443E-09	2.024E-09	1.353E-09
NW	2.080E-07	3.643E-07	1.985E-07	1.087E-07	6.952E-08	3.181E-08	1.126E-08	5.076E-09	3.011E-09	2.021E-09
NNW	1.054E-07	1.549E-07	1.472E-07	1.178E-07	8.060E-08	3.798E-08	1.296E-08	5.575E-09	3.248E-09	2.205E-09
N	1.164E-07	1.049E-07	7.966E-08	5.734E-08	4.294E-08	2.502E-08	1.487E-08	9.278E-09	5.714E-09	3.869E-09
NNE	3.643E-08	5.081E-08	4.370E-08	3.344E-08	2.875E-08	3.822E-08	1.805E-08	8.089E-09	4.763E-09	3.198E-09
NE	1.984E-08	3.137E-08	2.711E-08	2.041E-08	1.714E-08	2.472E-08	1.201E-08	5.421E-09	3.286E-09	2.259E-09
ENE	1.207E-08	1.881E-08	1.544E-08	1.130E-08	9.203E-09	1.098E-08	5.172E-09	2.306E-09	1.400E-09	9.499E-10
E	9.873E-09	1.596E-08	1.362E-08	1.025E-08	8.579E-09	1.224E-08	6.054E-09	2.700E-09	1.581E-09	1.096E-09
ESE	2.065E-08	2.517E-08	2.009E-08	1.466E-08	1.192E-08	1.476E-08	7.304E-09	3.337E-09	1.953E-09	1.297E-09
SE	1.446E-08	2.724E-08	2.321E-08	1.716E-08	1.306E-08	7.663E-09	4.518E-09	3.019E-09	2.237E-09	1.616E-09
SSE	4.472E-08	4.825E-08	3.578E-08	2.534E-08	2.022E-08	2.151E-08	9.688E-09	4.293E-09	2.505E-09	1.669E-09

ERP ELEVATED STACK RELEASES - JUL-DEC 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	2.358E-09	2.082E-09	2.012E-09	1.529E-09	8.038E-10	5.085E-10	3.492E-10	2.529E-10	1.902E-10	1.540E-10	1.396E-10
SSW	1.119E-09	1.083E-09	1.176E-09	9.593E-10	5.286E-10	3.402E-10	2.357E-10	1.714E-10	1.603E-10	1.212E-10	9.486E-11
SW	3.390E-10	4.251E-10	5.825E-10	5.293E-10	5.881E-10	3.198E-10	1.980E-10	1.344E-10	9.708E-11	7.340E-11	5.744E-11
WSW	7.855E-10	6.909E-10	6.640E-10	8.445E-10	4.656E-10	2.511E-10	1.548E-10	1.048E-10	7.562E-11	5.715E-11	4.473E-11
W	4.795E-10	1.593E-09	1.349E-09	8.924E-10	4.077E-10	2.207E-10	1.366E-10	9.294E-11	6.758E-11	5.161E-11	4.091E-11
WNW	1.442E-09	1.409E-09	4.106E-09	2.799E-09	1.699E-09	8.558E-10	5.129E-10	3.483E-10	2.638E-10	2.108E-10	1.788E-10
NW	6.500E-09	5.213E-09	4.320E-09	5.203E-09	3.027E-09	1.512E-09	9.039E-10	6.112E-10	4.543E-10	3.636E-10	3.082E-10
NNW	7.243E-09	5.649E-09	4.443E-09	2.862E-09	2.053E-09	1.099E-09	6.821E-10	5.534E-10	4.141E-10	3.337E-10	2.848E-10
N	1.128E-08	8.935E-09	7.242E-09	4.799E-09	2.262E-09	1.368E-09	9.182E-10	6.569E-10	4.910E-10	3.790E-10	3.000E-10
NNE	2.207E-09	1.978E-09	1.952E-09	1.503E-09	7.978E-10	5.065E-10	3.485E-10	2.526E-10	1.901E-10	1.471E-10	1.165E-10
NE	6.639E-10	7.655E-10	9.844E-10	8.716E-10	5.041E-10	3.299E-10	2.304E-10	1.683E-10	1.271E-10	9.852E-11	7.801E-11
ENE	3.390E-10	4.251E-10	5.825E-10	5.293E-10	3.104E-10	2.041E-10	1.428E-10	1.044E-10	7.892E-11	6.120E-11	4.846E-11
E	3.335E-10	3.922E-10	5.123E-10	4.566E-10	2.650E-10	1.736E-10	1.213E-10	8.864E-11	6.696E-11	5.191E-11	4.111E-11
ESE	8.161E-10	8.745E-10	1.055E-09	9.077E-10	5.166E-10	3.362E-10	2.342E-10	1.708E-10	1.289E-10	9.993E-11	7.913E-11
SE	7.143E-11	4.285E-10	9.124E-10	9.451E-10	5.903E-10	3.958E-10	2.796E-10	2.054E-10	1.556E-10	1.207E-10	9.561E-11
SSE	3.456E-09	3.038E-09	2.918E-09	2.208E-09	1.157E-09	7.313E-10	5.020E-10	3.634E-10	2.733E-10	2.115E-10	1.675E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	1.123E-10	9.882E-11	7.102E-11	4.298E-11	2.750E-11	1.761E-11	1.260E-11	9.442E-12	7.450E-12	5.933E-12	4.843E-12
SSW	7.667E-11	7.178E-11	5.214E-11	3.179E-11	1.863E-11	1.289E-11	9.237E-12	6.937E-12	5.423E-12	4.332E-12	3.536E-12
SW	4.637E-11	5.053E-11	3.761E-11	2.333E-11	1.495E-11	9.265E-12	6.491E-12	4.874E-12	3.790E-12	3.027E-12	2.471E-12
WSW	3.646E-11	3.620E-11	2.665E-11	1.616E-11	9.779E-12	6.557E-12	4.698E-12	3.528E-12	2.743E-12	2.191E-12	1.788E-12
W	3.341E-11	1.607E-11	2.437E-11	1.538E-11	8.905E-12	6.065E-12	4.346E-12	3.263E-12	2.537E-12	2.027E-12	1.654E-12
WNW	1.595E-10	1.056E-10	7.860E-11	4.880E-11	2.966E-11	1.907E-11	1.363E-11	1.023E-11	7.957E-12	6.356E-12	5.188E-12
NW	2.738E-10	1.798E-10	1.334E-10	7.972E-11	4.841E-11	3.247E-11	2.344E-11	1.760E-11	1.370E-11	1.094E-11	8.933E-12
NNW	2.543E-10	1.694E-10	1.265E-10	7.898E-11	5.109E-11	3.419E-11	2.204E-11	1.583E-11	1.251E-11	9.991E-12	8.156E-12
N	2.424E-10	1.158E-10	7.123E-11	3.830E-11	9.329E-11	5.536E-11	3.964E-11	2.977E-11	2.315E-11	1.849E-11	1.509E-11
NNE	9.397E-11	2.144E-10	1.336E-10	6.979E-11	4.268E-11	2.855E-11	2.038E-11	1.524E-11	1.181E-11	9.406E-12	7.659E-12
NE	6.287E-11	1.331E-10	8.397E-11	4.448E-11	2.730E-11	1.824E-11	1.273E-11	9.469E-12	7.363E-12	5.917E-12	4.830E-12
ENE	3.905E-11	5.654E-11	4.264E-11	2.671E-11	1.715E-11	1.135E-11	7.956E-12	5.222E-12	4.061E-12	3.245E-12	2.650E-12
E	3.313E-11	6.149E-11	4.780E-11	3.059E-11	1.973E-11	1.304E-11	9.114E-12	6.642E-12	5.034E-12	3.575E-12	2.910E-12
ESE	6.378E-11	9.190E-11	6.931E-11	4.343E-11	2.791E-11	1.849E-11	1.297E-11	9.491E-12	7.220E-12	5.663E-12	4.550E-12
SE	7.701E-11	3.646E-11	2.222E-11	1.168E-11	7.130E-12	4.957E-12	3.792E-12	1.153E-11	8.791E-12	6.913E-12	5.577E-12
SSE	1.351E-10	1.862E-10	1.146E-10	5.907E-11	3.596E-11	2.408E-11	1.721E-11	1.289E-11	9.996E-12	7.969E-12	6.493E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.813E-09	8.337E-10	3.532E-10	1.943E-10	1.338E-10	8.946E-11	4.233E-11	1.824E-11	9.586E-12	5.979E-12
SSW	1.059E-09	5.406E-10	2.379E-10	1.486E-10	9.592E-11	6.414E-11	3.046E-11	1.296E-11	7.017E-12	4.360E-12
SW	5.239E-10	4.558E-10	2.050E-10	9.872E-11	5.807E-11	4.386E-11	2.278E-11	9.672E-12	4.923E-12	3.047E-12
WSW	7.502E-10	4.544E-10	1.605E-10	7.692E-11	4.535E-11	3.201E-11	1.566E-11	6.673E-12	3.563E-12	2.206E-12
W	1.200E-09	4.323E-10	1.415E-10	6.874E-11	4.130E-11	2.361E-11	1.450E-11	6.135E-12	3.296E-12	2.040E-12
WNW	2.926E-09	1.569E-09	5.385E-10	2.678E-10	1.811E-10	1.056E-10	4.692E-11	1.972E-11	1.034E-11	6.398E-12
NW	4.911E-09	2.837E-09	9.491E-10	4.646E-10	3.119E-10	1.801E-10	7.774E-11	3.311E-11	1.778E-11	1.102E-11
NNW	4.008E-09	1.809E-09	7.418E-10	4.233E-10	2.880E-10	1.692E-10	7.714E-11	3.383E-11	1.634E-11	1.006E-11
N	6.532E-09	2.429E-09	9.337E-10	4.957E-10	3.021E-10	1.241E-10	7.006E-11	5.919E-11	3.007E-11	1.861E-11
NNE	1.758E-09	8.250E-10	3.523E-10	1.916E-10	1.172E-10	1.517E-10	7.191E-11	2.905E-11	1.540E-11	9.471E-12
NE	8.856E-10	5.083E-10	2.321E-10	1.280E-10	7.848E-11	9.567E-11	4.562E-11	1.845E-11	9.599E-12	5.943E-12
ENE	5.239E-10	3.118E-10	1.438E-10	7.946E-11	4.875E-11	4.648E-11	2.600E-11	1.154E-11	5.561E-12	3.267E-12
E	4.608E-10	2.670E-10	1.222E-10	6.742E-11	4.135E-11	4.910E-11	2.959E-11	1.325E-11	6.736E-12	3.761E-12
ESE	9.495E-10	5.234E-10	2.361E-10	1.299E-10	7.961E-11	7.561E-11	4.229E-11	1.879E-11	9.619E-12	5.712E-12
SE	8.194E-10	5.827E-10	2.809E-10	1.565E-10	9.617E-11	3.914E-11	1.200E-11	5.071E-12	8.276E-12	6.975E-12
SSE	2.629E-09	1.201E-09	5.077E-10	2.755E-10	1.685E-10	1.430E-10	6.115E-11	2.450E-11	1.302E-11	8.023E-12

ERP ELEVATED STACK RELEASES - JUL-DEC 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	3.9E-08	3.9E-08	3.8E-08	1.9E-09
A	Site Boundary	SSW	.82	2.3E-08	2.3E-08	2.3E-08	1.1E-09
A	Site Boundary	SW	.97	4.9E-08	4.8E-08	4.8E-08	5.5E-10
A	Site Boundary	WSW	.93	4.8E-08	4.8E-08	4.8E-08	7.3E-10
A	Site Boundary	W	.91	1.0E-07	1.0E-07	1.0E-07	9.9E-10
A	Site Boundary	WNW	.94	2.0E-07	2.0E-07	1.9E-07	3.1E-09
A	Site Boundary	NW	.81	2.0E-07	2.0E-07	2.0E-07	3.9E-09
A	Site Boundary	NNW	.69	9.3E-08	9.3E-08	9.1E-08	4.7E-09
A	Site Boundary	N	.67	1.2E-07	1.2E-07	1.2E-07	7.6E-09
A	Site Boundary	NNE	.60	2.4E-08	2.4E-08	2.4E-08	1.9E-09
A	Site Boundary	NE	.62	1.2E-08	1.2E-08	1.2E-08	8.6E-10
A	Site Boundary	ENE	.59	5.3E-09	5.3E-09	5.2E-09	4.7E-10
A	Site Boundary	E	.53	3.1E-09	3.1E-09	3.1E-09	4.0E-10
A	Site Boundary	ESE	.54	1.4E-08	1.4E-08	1.4E-08	8.9E-10
A	Site Boundary	SE	.65	5.9E-09	5.9E-09	5.9E-09	7.2E-10
A	Site Boundary	SSE	.81	5.0E-08	5.0E-08	4.9E-08	2.7E-09
A	Nearest Res	SW	1.30	8.1E-08	8.1E-08	8.0E-08	7.8E-10
A	Nearest Res	WSW	2.50	5.2E-08	5.2E-08	5.1E-08	1.5E-10
A	Nearest Res	W	1.00	1.1E-07	1.1E-07	1.1E-07	8.9E-10
A	Nearest Res	WNW	1.70	2.4E-07	2.4E-07	2.4E-07	1.3E-09
A	Nearest Res	NW	.90	2.5E-07	2.5E-07	2.4E-07	6.0E-09
A	Nearest Res	NNW	1.90	1.6E-07	1.6E-07	1.6E-07	1.2E-09
A	Nearest Res	N	3.00	7.0E-08	7.0E-08	6.8E-08	6.6E-10
A	Nearest Res	ENE	1.70	2.0E-08	2.0E-08	2.0E-08	2.6E-10
A	Nearest Res	E	1.80	1.7E-08	1.7E-08	1.7E-08	2.0E-10
A	Nearest Res	ESE	2.30	2.2E-08	2.2E-08	2.2E-08	2.7E-10
A	Nearest Cow	NNW	3.50	1.3E-07	1.3E-07	1.2E-07	4.1E-10
A	Nearest Garde	SW	1.30	8.1E-08	8.1E-08	8.0E-08	7.8E-10
A	Nearest Garde	WSW	1.90	8.0E-08	7.9E-08	7.9E-08	2.8E-10
A	Nearest Garde	WNW	2.40	1.3E-07	1.3E-07	1.3E-07	5.6E-10
A	Nearest Garde	NW	2.90	1.5E-07	1.5E-07	1.5E-07	6.6E-10
A	Nearest Garde	NNW	1.90	1.6E-07	1.6E-07	1.6E-07	1.2E-09
A	Nearest Garde	N	3.00	7.0E-08	7.0E-08	6.8E-08	6.6E-10
A	Nearest Garde	ESE	2.30	2.2E-08	2.2E-08	2.2E-08	2.7E-10
A	MAXIMUM CHI/Q	S	1.00	4.3E-08	4.3E-08	4.2E-08	1.5E-09
A	MAXIMUM CHI/Q	SSW	1.50	3.2E-08	3.2E-08	3.2E-08	5.3E-10
A	MAXIMUM CHI/Q	SW	1.50	9.2E-08	9.2E-08	9.1E-08	5.9E-10
A	MAXIMUM CHI/Q	WSW	1.50	1.1E-07	1.1E-07	1.1E-07	4.7E-10
A	MAXIMUM CHI/Q	W	1.00	1.1E-07	1.1E-07	1.1E-07	8.9E-10
A	MAXIMUM CHI/Q	WNW	1.50	2.9E-07	2.9E-07	2.9E-07	1.7E-09
A	MAXIMUM CHI/Q	NW	1.50	5.1E-07	5.1E-07	5.0E-07	3.0E-09
A	MAXIMUM CHI/Q	NNW	1.50	1.7E-07	1.7E-07	1.7E-07	2.1E-09
A	MAXIMUM CHI/Q	N	.75	1.3E-07	1.3E-07	1.2E-07	7.2E-09
A	MAXIMUM CHI/Q	NNE	1.50	5.5E-08	5.5E-08	5.4E-08	8.0E-10
A	MAXIMUM CHI/Q	NE	7.50	3.5E-08	3.4E-08	3.4E-08	1.3E-10
A	MAXIMUM CHI/Q	ENE	1.50	2.1E-08	2.1E-08	2.0E-08	3.1E-10
A	MAXIMUM CHI/Q	E	1.50	1.7E-08	1.7E-08	1.7E-08	2.7E-10
A	MAXIMUM CHI/Q	ESE	1.50	2.7E-08	2.7E-08	2.7E-08	5.2E-10
A	MAXIMUM CHI/Q	SE	1.50	3.0E-08	3.0E-08	3.0E-08	5.9E-10
A	MAXIMUM CHI/Q	SSE	1.00	5.3E-08	5.3E-08	5.3E-08	2.2E-09

Atmospheric Diffusion Estimates

Elevated Releases

January-December 2002

ERP ELEVATED STACK RELEASES - JAN-DEC 2002
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.646E-09	1.977E-08	4.013E-08	4.864E-08	5.024E-08	4.364E-08	3.654E-08	3.062E-08	2.597E-08	3.141E-08	3.622E-08
SSW	4.390E-10	5.343E-09	1.606E-08	2.392E-08	2.823E-08	2.564E-08	2.197E-08	2.497E-08	2.675E-08	2.380E-08	2.145E-08
SW	5.203E-11	4.199E-09	2.541E-08	5.449E-08	8.776E-08	5.958E-08	4.310E-08	3.283E-08	2.603E-08	2.129E-08	1.786E-08
WSW	5.264E-11	3.626E-09	1.899E-08	4.444E-08	8.655E-08	5.613E-08	3.956E-08	2.964E-08	2.324E-08	1.885E-08	1.570E-08
W	3.499E-10	2.237E-08	7.599E-08	9.837E-08	9.430E-08	5.927E-08	4.100E-08	3.035E-08	2.359E-08	1.902E-08	1.577E-08
WNW	3.956E-09	1.903E-08	8.953E-08	1.635E-07	2.237E-07	1.376E-07	9.380E-08	7.189E-08	5.737E-08	4.552E-08	3.724E-08
NW	1.922E-08	5.122E-08	1.132E-07	2.025E-07	3.407E-07	2.016E-07	1.343E-07	9.890E-08	7.661E-08	6.052E-08	4.934E-08
NNW	2.506E-08	6.098E-08	9.482E-08	1.175E-07	1.517E-07	1.466E-07	1.357E-07	1.216E-07	1.090E-07	8.591E-08	6.992E-08
N	5.922E-08	1.052E-07	1.189E-07	1.069E-07	9.313E-08	8.067E-08	6.869E-08	5.751E-08	4.882E-08	4.204E-08	3.668E-08
NNE	1.366E-09	1.538E-08	3.653E-08	5.020E-08	5.907E-08	5.481E-08	4.783E-08	4.127E-08	3.577E-08	3.128E-08	2.765E-08
NE	2.196E-09	1.238E-08	2.525E-08	3.450E-08	4.011E-08	3.657E-08	3.142E-08	2.678E-08	2.296E-08	1.991E-08	1.746E-08
ENE	5.720E-11	4.021E-09	1.339E-08	2.008E-08	2.333E-08	2.083E-08	1.760E-08	1.481E-08	1.259E-08	1.084E-08	9.454E-09
E	6.713E-11	4.554E-09	1.162E-08	1.533E-08	1.697E-08	1.525E-08	1.306E-08	1.115E-08	9.595E-09	8.358E-09	7.370E-09
ESE	1.518E-09	1.108E-08	2.075E-08	2.619E-08	2.865E-08	2.566E-08	2.192E-08	1.866E-08	1.602E-08	1.392E-08	1.225E-08
SE	7.587E-10	6.186E-09	2.382E-08	3.863E-08	4.590E-08	4.107E-08	3.472E-08	2.922E-08	2.481E-08	2.134E-08	1.859E-08
SSE	9.204E-09	4.194E-08	6.615E-08	7.073E-08	6.693E-08	5.637E-08	4.644E-08	3.851E-08	3.239E-08	2.765E-08	2.395E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.275E-08	2.295E-08	1.501E-08	8.690E-09	6.150E-09	4.678E-09	3.655E-09	2.970E-09	2.503E-09	2.150E-09	1.867E-09
SSW	2.023E-08	1.674E-08	1.096E-08	6.362E-09	4.591E-09	3.470E-09	2.714E-09	2.207E-09	1.848E-09	1.580E-09	1.374E-09
SW	1.650E-08	1.313E-08	8.699E-09	5.120E-09	3.726E-09	2.890E-09	2.341E-09	1.908E-09	1.599E-09	1.369E-09	1.192E-09
WSW	1.404E-08	9.658E-09	7.050E-09	4.490E-09	3.050E-09	2.264E-09	1.778E-09	1.450E-09	1.215E-09	1.041E-09	9.071E-10
W	1.337E-08	7.436E-09	5.506E-09	3.832E-09	3.001E-09	2.249E-09	1.765E-09	1.440E-09	1.208E-09	1.036E-09	9.028E-10
WNW	3.154E-08	1.748E-08	1.179E-08	7.075E-09	4.829E-09	3.593E-09	2.829E-09	2.306E-09	1.926E-09	1.643E-09	1.426E-09
NW	4.166E-08	2.286E-08	1.542E-08	9.222E-09	6.219E-09	4.592E-09	3.633E-09	2.961E-09	2.474E-09	2.112E-09	1.834E-09
NNW	5.953E-08	3.345E-08	2.172E-08	1.248E-08	8.468E-09	6.279E-09	4.961E-09	4.065E-09	3.445E-09	2.956E-09	2.570E-09
N	3.247E-08	2.060E-08	1.700E-08	1.324E-08	1.071E-08	8.635E-09	6.778E-09	5.513E-09	4.605E-09	3.931E-09	3.413E-09
NNE	3.133E-08	4.740E-08	3.082E-08	1.776E-08	1.206E-08	8.952E-09	7.027E-09	5.731E-09	4.806E-09	4.118E-09	3.587E-09
NE	1.922E-08	2.973E-08	1.938E-08	1.121E-08	7.634E-09	5.679E-09	4.520E-09	3.722E-09	3.151E-09	2.700E-09	2.353E-09
ENE	9.984E-09	1.477E-08	9.782E-09	5.758E-09	3.961E-09	2.967E-09	2.457E-09	2.070E-09	1.738E-09	1.491E-09	1.300E-09
E	8.106E-09	1.404E-08	9.372E-09	5.572E-09	3.860E-09	2.905E-09	2.305E-09	1.897E-09	1.665E-09	1.473E-09	1.287E-09
ESE	1.302E-08	1.797E-08	1.207E-08	7.221E-09	5.015E-09	3.780E-09	3.002E-09	2.471E-09	2.087E-09	1.800E-09	1.576E-09
SE	1.638E-08	1.019E-08	8.029E-09	6.011E-09	4.517E-09	3.649E-09	3.084E-09	2.685E-09	2.264E-09	1.948E-09	1.703E-09
SSE	2.537E-08	2.925E-08	1.883E-08	1.072E-08	7.223E-09	5.331E-09	4.165E-09	3.384E-09	2.828E-09	2.416E-09	2.100E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.939E-08	4.695E-08	3.607E-08	2.937E-08	3.351E-08	2.160E-08	8.966E-09	4.661E-09	2.988E-09	2.150E-09
SSW	1.717E-08	2.612E-08	2.415E-08	2.512E-08	2.169E-08	1.495E-08	6.597E-09	3.467E-09	2.215E-09	1.583E-09
SW	3.362E-08	6.784E-08	4.339E-08	2.617E-08	1.837E-08	1.191E-08	5.296E-09	2.894E-09	1.914E-09	1.371E-09
WSW	2.689E-08	6.367E-08	4.001E-08	2.339E-08	1.602E-08	9.473E-09	4.419E-09	2.279E-09	1.454E-09	1.043E-09
W	7.402E-08	7.964E-08	4.161E-08	2.378E-08	1.585E-08	7.897E-09	3.835E-09	2.256E-09	1.445E-09	1.038E-09
WNW	1.067E-07	1.721E-07	9.673E-08	5.701E-08	3.758E-08	1.808E-08	7.124E-09	3.617E-09	2.311E-09	1.646E-09
NW	1.391E-07	2.482E-07	1.381E-07	7.685E-08	4.981E-08	2.373E-08	9.265E-09	4.642E-09	2.967E-09	2.116E-09
NNW	9.738E-08	1.418E-07	1.330E-07	1.038E-07	7.081E-08	3.403E-08	1.275E-08	6.335E-09	4.085E-09	2.958E-09
N	1.105E-07	9.064E-08	6.741E-08	4.872E-08	3.671E-08	2.164E-08	1.295E-08	8.445E-09	5.529E-09	3.939E-09
NNE	3.791E-08	5.521E-08	4.707E-08	3.563E-08	3.009E-08	3.646E-08	1.813E-08	9.011E-09	5.749E-09	4.125E-09
NE	2.650E-08	3.729E-08	3.094E-08	2.289E-08	1.884E-08	2.280E-08	1.144E-08	5.737E-09	3.733E-09	2.705E-09
ENE	1.428E-08	2.149E-08	1.735E-08	1.256E-08	1.006E-08	1.149E-08	5.853E-09	3.028E-09	2.054E-09	1.494E-09
E	1.170E-08	1.584E-08	1.288E-08	9.567E-09	7.935E-09	1.065E-08	5.655E-09	2.920E-09	1.925E-09	1.461E-09
ESE	2.102E-08	2.678E-08	2.161E-08	1.598E-08	1.303E-08	1.425E-08	7.317E-09	3.798E-09	2.476E-09	1.802E-09
SE	2.648E-08	4.214E-08	3.421E-08	2.475E-08	1.858E-08	1.060E-08	5.796E-09	3.655E-09	2.638E-09	1.951E-09
SSE	6.281E-08	6.308E-08	4.591E-08	3.233E-08	2.557E-08	2.376E-08	1.097E-08	5.369E-09	3.395E-09	2.421E-09

ERP ELEVATED STACK RELEASES - JAN-DEC 2002
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.645E-09	1.976E-08	4.010E-08	4.858E-08	5.015E-08	4.353E-08	3.642E-08	3.050E-08	2.584E-08	3.123E-08	3.597E-08
SSW	4.389E-10	5.340E-09	1.604E-08	2.389E-08	2.816E-08	2.556E-08	2.188E-08	2.485E-08	2.660E-08	2.364E-08	2.128E-08
SW	5.201E-11	4.196E-09	2.538E-08	5.441E-08	8.755E-08	5.939E-08	4.292E-08	3.267E-08	2.588E-08	2.115E-08	1.772E-08
WSW	5.262E-11	3.624E-09	1.897E-08	4.436E-08	8.628E-08	5.588E-08	3.934E-08	2.944E-08	2.305E-08	1.867E-08	1.554E-08
W	3.497E-10	2.235E-08	7.589E-08	9.819E-08	9.403E-08	5.903E-08	4.079E-08	3.017E-08	2.343E-08	1.887E-08	1.563E-08
WNW	3.955E-09	1.902E-08	8.943E-08	1.632E-07	2.232E-07	1.372E-07	9.346E-08	7.157E-08	5.707E-08	4.525E-08	3.699E-08
NW	1.922E-08	5.120E-08	1.131E-07	2.022E-07	3.401E-07	2.010E-07	1.338E-07	9.851E-08	7.625E-08	6.019E-08	4.903E-08
NNW	2.505E-08	6.096E-08	9.475E-08	1.174E-07	1.513E-07	1.461E-07	1.352E-07	1.211E-07	1.084E-07	8.540E-08	6.946E-08
N	5.921E-08	1.051E-07	1.189E-07	1.068E-07	9.296E-08	8.046E-08	6.846E-08	5.728E-08	4.859E-08	4.181E-08	3.646E-08
NNE	1.366E-09	1.537E-08	3.649E-08	5.012E-08	5.892E-08	5.462E-08	4.762E-08	4.105E-08	3.555E-08	3.106E-08	2.743E-08
NE	2.196E-09	1.237E-08	2.522E-08	3.444E-08	4.000E-08	3.643E-08	3.127E-08	2.662E-08	2.281E-08	1.975E-08	1.731E-08
ENE	5.719E-11	4.018E-09	1.337E-08	2.005E-08	2.327E-08	2.076E-08	1.752E-08	1.474E-08	1.251E-08	1.076E-08	9.378E-09
E	6.711E-11	4.551E-09	1.161E-08	1.531E-08	1.694E-08	1.520E-08	1.301E-08	1.109E-08	9.542E-09	8.305E-09	7.318E-09
ESE	1.517E-09	1.107E-08	2.073E-08	2.615E-08	2.860E-08	2.559E-08	2.185E-08	1.859E-08	1.595E-08	1.385E-08	1.218E-08
SE	7.583E-10	6.182E-09	2.380E-08	3.859E-08	4.583E-08	4.099E-08	3.463E-08	2.912E-08	2.472E-08	2.125E-08	1.849E-08
SSE	9.203E-09	4.192E-08	6.611E-08	7.066E-08	6.682E-08	5.624E-08	4.631E-08	3.838E-08	3.226E-08	2.753E-08	2.383E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.250E-08	2.263E-08	1.473E-08	8.445E-09	5.911E-09	4.446E-09	3.438E-09	2.764E-09	2.305E-09	1.958E-09	1.683E-09
SSW	2.005E-08	1.648E-08	1.074E-08	6.163E-09	4.393E-09	3.282E-09	2.538E-09	2.041E-09	1.689E-09	1.428E-09	1.228E-09
SW	1.636E-08	1.294E-08	8.534E-09	4.974E-09	3.581E-09	2.747E-09	2.202E-09	1.775E-09	1.472E-09	1.248E-09	1.075E-09
WSW	1.387E-08	9.471E-09	6.862E-09	4.304E-09	2.882E-09	2.109E-09	1.632E-09	1.312E-09	1.085E-09	9.161E-10	7.869E-10
W	1.323E-08	7.315E-09	5.380E-09	3.688E-09	2.841E-09	2.099E-09	1.624E-09	1.307E-09	1.081E-09	9.137E-10	7.853E-10
WNW	3.130E-08	1.728E-08	1.160E-08	6.904E-09	4.673E-09	3.448E-09	2.692E-09	2.175E-09	1.802E-09	1.524E-09	1.312E-09
NW	4.137E-08	2.262E-08	1.519E-08	9.013E-09	6.030E-09	4.417E-09	3.466E-09	2.801E-09	2.322E-09	1.967E-09	1.695E-09
NNW	5.909E-08	3.308E-08	2.140E-08	1.221E-08	8.224E-09	6.054E-09	4.749E-09	3.864E-09	3.252E-09	2.770E-09	2.392E-09
N	3.226E-08	2.039E-08	1.676E-08	1.295E-08	1.038E-08	8.286E-09	6.449E-09	5.201E-09	4.308E-09	3.647E-09	3.141E-09
NNE	3.105E-08	4.675E-08	3.025E-08	1.727E-08	1.162E-08	8.546E-09	6.646E-09	5.371E-09	4.463E-09	3.789E-09	3.271E-09
NE	1.904E-08	2.926E-08	1.898E-08	1.086E-08	7.315E-09	5.384E-09	4.239E-09	3.453E-09	2.891E-09	2.451E-09	2.113E-09
ENE	9.896E-09	1.459E-08	9.622E-09	5.618E-09	3.835E-09	2.850E-09	2.342E-09	1.958E-09	1.632E-09	1.389E-09	1.203E-09
E	8.041E-09	1.386E-08	9.210E-09	5.428E-09	3.727E-09	2.781E-09	2.187E-09	1.784E-09	1.552E-09	1.360E-09	1.179E-09
ESE	1.293E-08	1.774E-08	1.186E-08	7.032E-09	4.837E-09	3.612E-09	2.840E-09	2.315E-09	1.938E-09	1.654E-09	1.435E-09
SE	1.628E-08	1.010E-08	7.934E-09	5.895E-09	4.394E-09	3.518E-09	2.945E-09	2.537E-09	2.121E-09	1.809E-09	1.568E-09
SSE	2.523E-08	2.892E-08	1.855E-08	1.047E-08	7.000E-09	5.124E-09	3.971E-09	3.200E-09	2.653E-09	2.247E-09	1.937E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.935E-08	4.686E-08	3.595E-08	2.923E-08	3.328E-08	2.131E-08	8.716E-09	4.433E-09	2.782E-09	1.959E-09
SSW	1.715E-08	2.606E-08	2.405E-08	2.497E-08	2.153E-08	1.472E-08	6.393E-09	3.281E-09	2.049E-09	1.431E-09
SW	3.357E-08	6.767E-08	4.321E-08	2.602E-08	1.823E-08	1.174E-08	5.146E-09	2.752E-09	1.782E-09	1.250E-09
WSW	2.684E-08	6.345E-08	3.979E-08	2.321E-08	1.585E-08	9.289E-09	4.240E-09	2.124E-09	1.317E-09	9.182E-10
W	7.390E-08	7.940E-08	4.141E-08	2.361E-08	1.570E-08	7.770E-09	3.687E-09	2.107E-09	1.311E-09	9.157E-10
WNW	1.066E-07	1.717E-07	9.638E-08	5.671E-08	3.733E-08	1.787E-08	6.957E-09	3.472E-09	2.180E-09	1.528E-09
NW	1.389E-07	2.476E-07	1.376E-07	7.649E-08	4.950E-08	2.349E-08	9.061E-09	4.467E-09	2.809E-09	1.971E-09
NNW	9.729E-08	1.415E-07	1.325E-07	1.033E-07	7.034E-08	3.367E-08	1.248E-08	6.111E-09	3.884E-09	2.773E-09
N	1.104E-07	9.047E-08	6.719E-08	4.849E-08	3.649E-08	2.141E-08	1.265E-08	8.108E-09	5.218E-09	3.656E-09
NNE	3.786E-08	5.505E-08	4.686E-08	3.541E-08	2.985E-08	3.593E-08	1.764E-08	8.605E-09	5.390E-09	3.797E-09
NE	2.646E-08	3.718E-08	3.079E-08	2.273E-08	1.867E-08	2.242E-08	1.109E-08	5.441E-09	3.463E-09	2.456E-09
ENE	1.426E-08	2.144E-08	1.727E-08	1.248E-08	9.979E-09	1.134E-08	5.715E-09	2.909E-09	1.943E-09	1.392E-09
E	1.168E-08	1.580E-08	1.283E-08	9.514E-09	7.878E-09	1.050E-08	5.512E-09	2.796E-09	1.811E-09	1.350E-09
ESE	2.099E-08	2.672E-08	2.154E-08	1.591E-08	1.295E-08	1.406E-08	7.130E-09	3.630E-09	2.321E-09	1.657E-09
SE	2.646E-08	4.207E-08	3.412E-08	2.465E-08	1.849E-08	1.051E-08	5.681E-09	3.522E-09	2.495E-09	1.812E-09
SSE	6.276E-08	6.297E-08	4.579E-08	3.221E-08	2.544E-08	2.349E-08	1.072E-08	5.163E-09	3.212E-09	2.253E-09

ERP ELEVATED STACK RELEASES - JAN-DEC 2002
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.646E-09	1.960E-08	3.957E-08	4.807E-08	4.947E-08	4.271E-08	3.555E-08	2.963E-08	2.500E-08	3.028E-08	3.500E-08
SSW	4.390E-10	5.300E-09	1.591E-08	2.377E-08	2.789E-08	2.516E-08	2.141E-08	2.428E-08	2.598E-08	2.305E-08	2.072E-08
SW	5.202E-11	4.165E-09	2.524E-08	5.430E-08	8.673E-08	5.841E-08	4.199E-08	3.183E-08	2.514E-08	2.049E-08	1.713E-08
WSW	5.264E-11	3.595E-09	1.883E-08	4.422E-08	8.566E-08	5.524E-08	3.876E-08	2.894E-08	2.262E-08	1.831E-08	1.522E-08
W	3.498E-10	2.213E-08	7.528E-08	9.712E-08	9.260E-08	5.785E-08	3.983E-08	2.937E-08	2.276E-08	1.830E-08	1.513E-08
WNW	3.956E-09	1.889E-08	8.906E-08	1.620E-07	2.205E-07	1.348E-07	9.143E-08	6.985E-08	5.560E-08	4.392E-08	3.575E-08
NW	1.922E-08	5.076E-08	1.116E-07	2.004E-07	3.365E-07	1.977E-07	1.311E-07	9.620E-08	7.430E-08	5.844E-08	4.740E-08
NNW	2.505E-08	6.044E-08	9.323E-08	1.160E-07	1.496E-07	1.440E-07	1.330E-07	1.191E-07	1.066E-07	8.365E-08	6.775E-08
N	5.922E-08	1.042E-07	1.167E-07	1.048E-07	9.122E-08	7.875E-08	6.680E-08	5.571E-08	4.712E-08	4.044E-08	3.518E-08
NNE	1.366E-09	1.525E-08	3.609E-08	4.975E-08	5.830E-08	5.379E-08	4.668E-08	4.009E-08	3.460E-08	3.015E-08	2.657E-08
NE	2.196E-09	1.227E-08	2.495E-08	3.421E-08	3.959E-08	3.585E-08	3.061E-08	2.593E-08	2.213E-08	1.909E-08	1.668E-08
ENE	5.720E-11	3.988E-09	1.326E-08	1.994E-08	2.303E-08	2.041E-08	1.713E-08	1.432E-08	1.210E-08	1.036E-08	8.997E-09
E	6.713E-11	4.515E-09	1.147E-08	1.517E-08	1.673E-08	1.494E-08	1.273E-08	1.081E-08	9.262E-09	8.037E-09	7.063E-09
ESE	1.518E-09	1.098E-08	2.049E-08	2.594E-08	2.827E-08	2.517E-08	2.138E-08	1.811E-08	1.548E-08	1.340E-08	1.175E-08
SE	7.586E-10	6.141E-09	2.370E-08	3.851E-08	4.543E-08	4.035E-08	3.388E-08	2.833E-08	2.393E-08	2.048E-08	1.776E-08
SSE	9.204E-09	4.157E-08	6.509E-08	6.971E-08	6.577E-08	5.509E-08	4.512E-08	3.721E-08	3.114E-08	2.646E-08	2.283E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.160E-08	2.175E-08	1.376E-08	7.437E-09	4.868E-09	3.476E-09	2.594E-09	2.021E-09	1.642E-09	1.367E-09	1.153E-09
SSW	1.952E-08	1.593E-08	1.008E-08	5.454E-09	3.651E-09	2.645E-09	1.994E-09	1.568E-09	1.272E-09	1.057E-09	8.941E-10
SW	1.582E-08	1.245E-08	7.980E-09	4.382E-09	2.944E-09	2.136E-09	1.663E-09	1.309E-09	1.062E-09	8.827E-10	7.473E-10
WSW	1.359E-08	9.156E-09	6.466E-09	3.887E-09	2.519E-09	1.796E-09	1.360E-09	1.073E-09	8.728E-10	7.268E-10	6.165E-10
W	1.280E-08	7.048E-09	5.153E-09	3.377E-09	2.480E-09	1.786E-09	1.353E-09	1.068E-09	8.697E-10	7.248E-10	6.153E-10
WNW	3.011E-08	1.617E-08	1.054E-08	5.894E-09	3.713E-09	2.615E-09	1.979E-09	1.558E-09	1.260E-09	1.044E-09	8.806E-10
NW	3.980E-08	2.117E-08	1.381E-08	7.746E-09	4.947E-09	3.486E-09	2.655E-09	2.093E-09	1.696E-09	1.408E-09	1.191E-09
NNW	5.737E-08	3.124E-08	1.958E-08	1.047E-08	6.540E-09	4.522E-09	3.371E-09	2.646E-09	2.167E-09	1.802E-09	1.522E-09
N	3.106E-08	1.951E-08	1.606E-08	1.250E-08	9.856E-09	7.569E-09	5.760E-09	4.555E-09	3.707E-09	3.089E-09	2.622E-09
NNE	3.016E-08	4.568E-08	2.868E-08	1.555E-08	9.979E-09	7.059E-09	5.312E-09	4.171E-09	3.379E-09	2.803E-09	2.369E-09
NE	1.838E-08	2.854E-08	1.797E-08	9.757E-09	6.243E-09	4.405E-09	3.360E-09	2.675E-09	2.196E-09	1.829E-09	1.551E-09
ENE	9.504E-09	1.419E-08	9.088E-09	4.993E-09	3.173E-09	2.223E-09	1.734E-09	1.399E-09	1.137E-09	9.461E-10	8.020E-10
E	7.783E-09	1.360E-08	8.772E-09	4.855E-09	3.093E-09	2.170E-09	1.619E-09	1.261E-09	1.051E-09	8.903E-10	7.521E-10
ESE	1.250E-08	1.737E-08	1.128E-08	6.296E-09	4.032E-09	2.838E-09	2.121E-09	1.654E-09	1.329E-09	1.094E-09	9.179E-10
SE	1.559E-08	9.560E-09	7.492E-09	5.590E-09	4.180E-09	3.367E-09	2.840E-09	2.458E-09	2.023E-09	1.702E-09	1.457E-09
SSE	2.420E-08	2.785E-08	1.732E-08	9.285E-09	5.927E-09	4.176E-09	3.132E-09	2.452E-09	1.982E-09	1.641E-09	1.384E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.891E-08	4.616E-08	3.509E-08	2.833E-08	3.235E-08	2.039E-08	7.700E-09	3.494E-09	2.040E-09	1.369E-09
SSW	1.704E-08	2.576E-08	2.356E-08	2.437E-08	2.096E-08	1.413E-08	5.682E-09	2.653E-09	1.577E-09	1.060E-09
SW	3.347E-08	6.694E-08	4.231E-08	2.528E-08	1.764E-08	1.121E-08	4.543E-09	2.162E-09	1.316E-09	8.857E-10
WSW	2.673E-08	6.293E-08	3.923E-08	2.278E-08	1.553E-08	8.945E-09	3.852E-09	1.814E-09	1.079E-09	7.292E-10
W	7.318E-08	7.816E-08	4.045E-08	2.295E-08	1.521E-08	7.484E-09	3.373E-09	1.798E-09	1.074E-09	7.272E-10
WNW	1.059E-07	1.694E-07	9.436E-08	5.522E-08	3.608E-08	1.677E-08	5.958E-09	2.654E-09	1.565E-09	1.047E-09
NW	1.375E-07	2.446E-07	1.349E-07	7.451E-08	4.786E-08	2.204E-08	7.848E-09	3.543E-09	2.103E-09	1.413E-09
NNW	9.606E-08	1.396E-07	1.304E-07	1.014E-07	6.862E-08	3.187E-08	1.075E-08	4.600E-09	2.670E-09	1.807E-09
N	1.086E-07	8.870E-08	6.555E-08	4.703E-08	3.521E-08	2.054E-08	1.211E-08	7.455E-09	4.576E-09	3.099E-09
NNE	3.753E-08	5.440E-08	4.594E-08	3.448E-08	2.896E-08	3.468E-08	1.599E-08	7.139E-09	4.195E-09	2.813E-09
NE	2.625E-08	3.673E-08	3.014E-08	2.206E-08	1.802E-08	2.159E-08	1.002E-08	4.477E-09	2.688E-09	1.835E-09
ENE	1.417E-08	2.118E-08	1.688E-08	1.207E-08	9.589E-09	1.088E-08	5.094E-09	2.281E-09	1.395E-09	9.493E-10
E	1.157E-08	1.559E-08	1.255E-08	9.236E-09	7.618E-09	1.016E-08	4.942E-09	2.196E-09	1.283E-09	8.867E-10
ESE	2.080E-08	2.637E-08	2.108E-08	1.544E-08	1.252E-08	1.358E-08	6.398E-09	2.869E-09	1.664E-09	1.099E-09
SE	2.638E-08	4.163E-08	3.338E-08	2.387E-08	1.776E-08	9.981E-09	5.386E-09	3.373E-09	2.401E-09	1.706E-09
SSE	6.192E-08	6.190E-08	4.462E-08	3.109E-08	2.441E-08	2.236E-08	9.578E-09	4.225E-09	2.467E-09	1.647E-09

ERP ELEVATED STACK RELEASES - JAN-DEC 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	2.653E-09	2.425E-09	2.456E-09	1.922E-09	1.032E-09	6.578E-10	4.535E-10	3.291E-10	2.477E-10	2.038E-10	1.824E-10
SSW	6.954E-10	7.992E-10	1.025E-09	9.065E-10	5.239E-10	3.428E-10	2.394E-10	1.748E-10	1.651E-10	1.248E-10	9.768E-11
SW	4.691E-10	5.657E-10	7.534E-10	6.769E-10	7.495E-10	4.069E-10	2.516E-10	1.706E-10	1.232E-10	9.309E-11	7.284E-11
WSW	4.460E-10	4.275E-10	4.591E-10	6.898E-10	3.729E-10	2.016E-10	1.244E-10	8.429E-11	6.083E-11	4.597E-11	3.597E-11
W	3.762E-10	1.489E-09	1.286E-09	8.267E-10	3.891E-10	2.092E-10	1.289E-10	8.733E-11	6.326E-11	4.812E-11	3.801E-11
WNW	1.048E-09	1.042E-09	3.046E-09	2.140E-09	1.291E-09	6.525E-10	3.917E-10	2.659E-10	2.029E-10	1.622E-10	1.375E-10
NW	4.829E-09	3.863E-09	3.186E-09	3.804E-09	2.205E-09	1.101E-09	6.568E-10	4.427E-10	3.275E-10	2.605E-10	2.195E-10
NNW	7.544E-09	5.911E-09	4.689E-09	3.046E-09	2.219E-09	1.189E-09	7.377E-10	5.941E-10	4.408E-10	3.518E-10	2.971E-10
N	1.271E-08	9.917E-09	7.806E-09	5.033E-09	2.313E-09	1.383E-09	9.223E-10	6.576E-10	4.907E-10	3.785E-10	2.996E-10
NNE	1.794E-09	1.769E-09	1.962E-09	1.619E-09	8.984E-10	5.797E-10	4.021E-10	2.927E-10	2.206E-10	1.709E-10	1.354E-10
NE	1.270E-09	1.249E-09	1.382E-09	1.138E-09	6.310E-10	4.070E-10	2.822E-10	2.054E-10	1.549E-10	1.200E-10	9.500E-11
ENE	5.386E-10	6.077E-10	7.676E-10	6.744E-10	3.884E-10	2.538E-10	1.771E-10	1.293E-10	9.764E-11	7.569E-11	5.994E-11
E	5.967E-10	5.817E-10	6.370E-10	5.218E-10	2.884E-10	1.858E-10	1.288E-10	9.370E-11	7.063E-11	5.471E-11	4.332E-11
ESE	1.053E-09	1.073E-09	1.232E-09	1.034E-09	5.803E-10	3.758E-10	2.611E-10	1.903E-10	1.435E-10	1.112E-10	8.806E-11
SE	6.892E-10	1.137E-09	1.819E-09	1.746E-09	1.053E-09	6.985E-10	4.909E-10	3.597E-10	2.721E-10	2.111E-10	1.672E-10
SSE	5.537E-09	4.737E-09	4.370E-09	3.216E-09	1.652E-09	1.036E-09	7.080E-10	5.116E-10	3.843E-10	2.972E-10	2.353E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	1.467E-10	1.203E-10	8.521E-11	5.095E-11	3.250E-11	2.161E-11	1.546E-11	1.159E-11	9.091E-12	7.240E-12	5.910E-12
SSW	7.880E-11	6.725E-11	4.795E-11	2.878E-11	1.761E-11	1.209E-11	8.665E-12	6.507E-12	5.080E-12	4.058E-12	3.312E-12
SW	5.865E-11	5.157E-11	3.698E-11	2.229E-11	1.420E-11	9.485E-12	6.651E-12	4.994E-12	3.883E-12	3.102E-12	2.532E-12
WSW	3.062E-11	3.225E-11	2.412E-11	1.439E-11	8.709E-12	5.839E-12	4.195E-12	3.150E-12	2.449E-12	1.956E-12	1.597E-12
W	3.095E-11	1.474E-11	2.386E-11	1.539E-11	8.854E-12	5.981E-12	4.285E-12	3.218E-12	2.502E-12	1.999E-12	1.631E-12
WNW	1.225E-10	8.103E-11	6.027E-11	3.740E-11	2.255E-11	1.460E-11	1.045E-11	7.847E-12	6.108E-12	4.879E-12	3.983E-12
NW	1.937E-10	1.250E-10	9.204E-11	5.554E-11	3.376E-11	2.263E-11	1.626E-11	1.221E-11	9.500E-12	7.589E-12	6.194E-12
NNW	2.627E-10	1.702E-10	1.256E-10	7.777E-11	5.024E-11	3.366E-11	2.207E-11	1.611E-11	1.259E-11	1.006E-11	8.211E-12
N	2.422E-10	1.158E-10	7.133E-11	3.846E-11	8.656E-11	5.209E-11	3.728E-11	2.800E-11	2.177E-11	1.739E-11	1.419E-11
NNE	1.091E-10	2.189E-10	1.356E-10	7.045E-11	4.300E-11	2.878E-11	2.056E-11	1.539E-11	1.193E-11	9.509E-12	7.747E-12
NE	7.660E-11	1.283E-10	8.027E-11	4.216E-11	2.582E-11	1.726E-11	1.229E-11	9.170E-12	7.131E-12	5.734E-12	4.681E-12
ENE	4.831E-11	6.206E-11	4.601E-11	2.846E-11	1.824E-11	1.209E-11	8.495E-12	5.773E-12	4.491E-12	3.589E-12	2.931E-12
E	3.493E-11	5.741E-11	4.407E-11	2.798E-11	1.803E-11	1.194E-11	8.367E-12	6.114E-12	4.644E-12	3.340E-12	2.721E-12
ESE	7.099E-11	9.638E-11	7.211E-11	4.493E-11	2.885E-11	1.913E-11	1.344E-11	9.848E-12	7.501E-12	5.892E-12	4.739E-12
SE	1.347E-10	6.382E-11	3.893E-11	2.050E-11	1.252E-11	8.649E-12	6.515E-12	1.495E-11	1.144E-11	9.024E-12	7.298E-12
SSE	1.899E-10	2.399E-10	1.464E-10	7.469E-11	4.534E-11	3.039E-11	2.176E-11	1.632E-11	1.268E-11	1.012E-11	8.257E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.212E-09	1.064E-09	4.582E-10	2.542E-10	1.755E-10	1.106E-10	5.036E-11	2.205E-11	1.174E-11	7.296E-12
SSW	9.221E-10	5.284E-10	2.411E-10	1.525E-10	9.873E-11	6.124E-11	2.807E-11	1.219E-11	6.580E-12	4.084E-12
SW	6.777E-10	5.811E-10	2.606E-10	1.253E-10	7.359E-11	4.666E-11	2.196E-11	9.609E-12	5.044E-12	3.122E-12
WSW	5.546E-10	3.672E-10	1.290E-10	6.187E-11	3.695E-11	2.828E-11	1.403E-11	5.947E-12	3.182E-12	1.969E-12
W	1.127E-09	4.064E-10	1.337E-10	6.437E-11	3.839E-11	2.240E-11	1.437E-11	6.069E-12	3.250E-12	2.012E-12
WNW	2.198E-09	1.196E-09	4.109E-10	2.054E-10	1.392E-10	8.102E-11	3.589E-11	1.506E-11	7.929E-12	4.911E-12
NW	3.611E-09	2.070E-09	6.896E-10	3.349E-10	2.221E-10	1.256E-10	5.397E-11	2.305E-11	1.234E-11	7.639E-12
NNW	4.230E-09	1.945E-09	8.005E-10	4.507E-10	3.006E-10	1.709E-10	7.616E-11	3.344E-11	1.647E-11	1.012E-11
N	7.043E-09	2.504E-09	9.393E-10	4.956E-10	3.017E-10	1.241E-10	6.714E-11	5.536E-11	2.828E-11	1.750E-11
NNE	1.767E-09	9.169E-10	4.057E-10	2.223E-10	1.362E-10	1.575E-10	7.274E-11	2.929E-11	1.555E-11	9.574E-12
NE	1.244E-09	6.441E-10	2.848E-10	1.560E-10	9.559E-11	9.545E-11	4.337E-11	1.756E-11	9.285E-12	5.758E-12
ENE	6.907E-10	3.921E-10	1.784E-10	9.833E-11	6.030E-11	5.187E-11	2.782E-11	1.229E-11	6.062E-12	3.613E-12
E	5.735E-10	2.947E-10	1.300E-10	7.116E-11	4.359E-11	4.649E-11	2.713E-11	1.214E-11	6.198E-12	3.497E-12
ESE	1.109E-09	5.903E-10	2.634E-10	1.446E-10	8.859E-11	7.995E-11	4.383E-11	1.945E-11	9.979E-12	5.942E-12
SE	1.635E-09	1.050E-09	4.938E-10	2.739E-10	1.682E-10	6.850E-11	2.105E-11	8.827E-12	1.120E-11	9.100E-12
SSE	3.938E-09	1.725E-09	7.168E-10	3.875E-10	2.369E-10	1.873E-10	7.759E-11	3.092E-11	1.649E-11	1.019E-11

ERP ELEVATED STACK RELEASES - JAN-DEC 2002
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	4.2E-08	4.2E-08	4.2E-08	2.4E-09
A	Site Boundary	SSW	.82	1.9E-08	1.9E-08	1.9E-08	1.0E-09
A	Site Boundary	SW	.97	5.2E-08	5.2E-08	5.2E-08	7.0E-10
A	Site Boundary	WSW	.93	3.6E-08	3.6E-08	3.6E-08	5.6E-10
A	Site Boundary	W	.91	9.4E-08	9.3E-08	9.2E-08	9.4E-10
A	Site Boundary	WNW	.94	1.5E-07	1.5E-07	1.5E-07	2.4E-09
A	Site Boundary	NW	.81	1.3E-07	1.3E-07	1.3E-07	2.9E-09
A	Site Boundary	NNW	.69	8.4E-08	8.4E-08	8.3E-08	4.9E-09
A	Site Boundary	N	.67	1.1E-07	1.1E-07	1.1E-07	8.3E-09
A	Site Boundary	NNE	.60	2.2E-08	2.2E-08	2.2E-08	1.8E-09
A	Site Boundary	NE	.62	1.7E-08	1.7E-08	1.7E-08	1.3E-09
A	Site Boundary	ENE	.59	6.5E-09	6.5E-09	6.5E-09	6.6E-10
A	Site Boundary	E	.53	5.2E-09	5.2E-09	5.1E-09	5.8E-10
A	Site Boundary	ESE	.54	1.2E-08	1.2E-08	1.2E-08	1.1E-09
A	Site Boundary	SE	.65	1.5E-08	1.5E-08	1.5E-08	1.5E-09
A	Site Boundary	SSE	.81	6.8E-08	6.8E-08	6.7E-08	4.1E-09
A	Nearest Res	SW	1.30	8.0E-08	7.9E-08	7.9E-08	1.0E-09
A	Nearest Res	WSW	2.50	4.0E-08	3.9E-08	3.9E-08	1.2E-10
A	Nearest Res	W	1.00	9.8E-08	9.8E-08	9.7E-08	8.3E-10
A	Nearest Res	WNW	1.70	1.8E-07	1.8E-07	1.8E-07	9.6E-10
A	Nearest Res	NW	.90	1.6E-07	1.6E-07	1.6E-07	4.4E-09
A	Nearest Res	NNW	1.90	1.5E-07	1.5E-07	1.5E-07	1.3E-09
A	Nearest Res	N	3.00	5.8E-08	5.7E-08	5.6E-08	6.6E-10
A	Nearest Res	ENE	1.70	2.3E-08	2.3E-08	2.2E-08	3.2E-10
A	Nearest Res	E	1.80	1.6E-08	1.6E-08	1.6E-08	2.2E-10
A	Nearest Res	ESE	2.30	2.3E-08	2.3E-08	2.3E-08	3.0E-10
A	Nearest Cow	NNW	3.50	1.1E-07	1.1E-07	1.1E-07	4.4E-10
A	Nearest Garde	SW	1.30	8.0E-08	7.9E-08	7.9E-08	1.0E-09
A	Nearest Garde	WSW	1.90	6.1E-08	6.1E-08	6.0E-08	2.3E-10
A	Nearest Garde	WNW	2.40	1.0E-07	1.0E-07	9.8E-08	4.3E-10
A	Nearest Garde	NW	2.90	1.0E-07	1.0E-07	1.0E-07	4.8E-10
A	Nearest Garde	NNW	1.90	1.5E-07	1.5E-07	1.5E-07	1.3E-09
A	Nearest Garde	N	3.00	5.8E-08	5.7E-08	5.6E-08	6.6E-10
A	Nearest Garde	ESE	2.30	2.3E-08	2.3E-08	2.3E-08	3.0E-10
A	MAXIMUM CHI/Q	S	1.50	5.0E-08	5.0E-08	4.9E-08	1.0E-09
A	MAXIMUM CHI/Q	SSW	1.50	2.8E-08	2.8E-08	2.8E-08	5.2E-10
A	MAXIMUM CHI/Q	SW	1.50	8.8E-08	8.8E-08	8.7E-08	7.5E-10
A	MAXIMUM CHI/Q	WSW	1.50	8.7E-08	8.6E-08	8.6E-08	3.7E-10
A	MAXIMUM CHI/Q	W	1.00	9.8E-08	9.8E-08	9.7E-08	8.3E-10
A	MAXIMUM CHI/Q	WNW	1.50	2.2E-07	2.2E-07	2.2E-07	1.3E-09
A	MAXIMUM CHI/Q	NW	1.50	3.4E-07	3.4E-07	3.4E-07	2.2E-09
A	MAXIMUM CHI/Q	NNW	1.50	1.5E-07	1.5E-07	1.5E-07	2.2E-09
A	MAXIMUM CHI/Q	N	.75	1.2E-07	1.2E-07	1.2E-07	7.8E-09
A	MAXIMUM CHI/Q	NNE	1.50	5.9E-08	5.9E-08	5.8E-08	9.0E-10
A	MAXIMUM CHI/Q	NE	1.50	4.0E-08	4.0E-08	4.0E-08	6.3E-10
A	MAXIMUM CHI/Q	ENE	1.50	2.3E-08	2.3E-08	2.3E-08	3.9E-10
A	MAXIMUM CHI/Q	E	1.50	1.7E-08	1.7E-08	1.7E-08	2.9E-10
A	MAXIMUM CHI/Q	ESE	1.50	2.9E-08	2.9E-08	2.8E-08	5.8E-10
A	MAXIMUM CHI/Q	SE	1.50	4.6E-08	4.6E-08	4.5E-08	1.1E-09
A	MAXIMUM CHI/Q	SSE	1.00	7.1E-08	7.1E-08	7.0E-08	3.2E-09

ATMOSPHERIC DIFFUSION MODEL

Onsite meteorological data from January 1 through December 31, 2002, were used to determine long-term (routine) diffusion estimates for evaluating normal atmospheric releases from Cooper Nuclear Station. Atmospheric dispersion parameters (X/Q values) were determined for the site boundary distances from each release point, the standard population distances, and special locations for nearest residence, cow, and garden using the methodology presented in U.S. NRC Regulatory Guide 1.111 (Rev.1) and the computer code XOQDOQ (NUREG/CR2919). Two release modes were analyzed. Releases from the 99-meter free-standing stack were considered 100 percent elevated, while releases from the reactor building, turbine-generator building, radwaste building and augmented radwaste building vents were considered as a 100 percent ground level release (one combined source term was assumed to apply for these vents).

Winds were obtained from measurements at the 10-meter level (for ground-level releases) and the 100-meter level (for elevated releases), and the stability class was based on the vertical temperature gradient between 60 meters and 10 meters (for ground releases) and 100 meters and 10 meters (for elevated releases). In accordance with Regulatory Guide 1.111, calm periods were distributed directionally in proportion to the directional distribution within a stability class of the lowest wind speed group. For the calculations, calm periods were assigned a speed of one-half the threshold wind speed of the wind vane or anemometer, whichever is higher.

The Gaussian straight-line trajectory model, which assumes that the air flow transports and diffuses effluents along a straight line through the entire region of interest in the airflow direction at the release point, was modified to account for various modes of effluent releases. In the case of an elevated release, plume rise due to momentum effects was incorporated into the calculation. For ground-level releases, building wake effects were considered.

The mathematical equation used in the Gaussian straight-line trajectory model is:

$$(X/Q)_I = 2.032 \sum_{jk} \frac{f_{ijk}}{x u_{jk} \Sigma_{zk}} \exp\left[\frac{-\frac{1}{2}h_e^2}{\sigma_{zk}^2}\right] \qquad \text{(Eq. 1)}$$

and

$$\Sigma_{zk} = \left(\sigma_{zk}^2 + 0.5\, D_z^2/\pi\right)^{\frac{1}{2}} \leq \sqrt{3}\, \sigma_{zk} \qquad \text{(Eq. 2)}$$

where I = index identifying direction sector;

j = index identifying wind speed class;

k = index identifying atmospheric stability class;

$\frac{X}{Q}$ = average effluent concentration normalized by source strength at the specific downwind distance;

f = joint frequency distribution of wind direction, wind speed class, and atmospheric stability class;

x = distance from the release point to a receptor;

u = wind speed;

Σ_z = vertical plume spread with volumetric building wake correction for a release within the building wake cavity;

σ_z = vertical plume spread without volumetric building wake correction;

D_z = maximum adjacent building height either upwind or downwind of the release point (44.5 meters for ground-level releases);
and

h_e = effective plume height;

The term Σ_{zk} given in Equations 1 and 2 is used for ground-level release ($h = 0$) within the building wake cavity. For an elevated release, no volumetric building wake correction needs to be considered, i.e., $\Sigma_{zk} = \sigma_{zk}$. For all building wake determinations, the reactor building was considered to be the dominating structure in the modification of air flows within the building complex.

Since the model does not directly consider the effects of spatial and temporal variation in airflow due to terrain, appropriate adjustments were made to the calculated X/Q values, using the default values of Regulatory Guide 1.111, Rev. 0.

APPENDIX C

DOSE CALCULATIONS

CONTENTS

LIQUID EFFLUENT DOSE CALCULATIONS

Doses to the maximum individual and 0 to 50 - mile population resulting from the release of radioactive material in liquid effluents from Cooper Nuclear Station were calculated using the LADTAP II computer program. The LADTAP II program implements the radiological dose models of Regulatory Guide 1.109 for determining the radiation exposure to man from three principal exposure pathways in the aquatic environment -- potable water, aquatic foods, and recreational water use. Doses to both the maximum individual and 0 to 50 mile population are calculated as a function of age group and pathway for significant body organs, and are presented in Tables 1 - 6.

Assumptions and data sources used for input to the LADTAP II code are described in a separate section of this appendix (see page C51).

TABLE 1. Doses to Maximum Individual at the Site Boundary, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, January-June 2002, Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter								
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
2nd Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
Totals for 1st & 2nd Quarters	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

Calculated doses are based on the following periods of exposures: Fishing: April - November; Drinking water and shoreline: January - December

TABLE 2. Doses to Maximum Individual at the Site Boundary, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, July-December 2002, Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
3rd Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
4th Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
Totals for 3rd & 4th Quarters	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

Calculated doses are based on the following periods of exposures:
Fishing: April - November; Drinking water and shoreline: January - December

TABLE 3. Summary of Doses to Maximum Individual at the Site Boundary, Resulting from Exposure to Radioactivity Discharged in Liquid Effluents, January-December 2002, Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
2nd Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
3rd Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
4th Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals for 2002	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

TABLE 4. Doses to Population Within a 50-Mile Radius, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, January-June 2002, Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter								
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
2nd Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Swimming	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Boating	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
Totals for 1st & 2nd Quarters	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

Calculated doses are based on the following periods of exposures: Fishing and Boating: April - November;
Drinking water and shoreline: January - December; Swimming: June - September
Exposure from drinking water is calculated for the city of St. Joseph, Missouri, nearest public water intake from the Missouri River, 84 miles downstream

TABLE 5. Doses to Population Within a 50-Mile Radius, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, July-December 2002, Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
3rd Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Swimming	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Boating	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
4th Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
Totals for 3rd & 4th Quarters	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

Calculated doses are based on the following periods of exposures: Fishing and Boating: April - November; Drinking water and shoreline: January - December; Swimming: June - September
Exposure from drinking water is calculated for the city of St. Joseph, Missouri, nearest public water intake from the Missouri River, 84 miles downstream

TABLE 6. Summary of Doses to Population Within a 50-Mile Radius, Resulting from Exposure to Radioactivity Discharged in Liquid Effluents, January-December 2002, Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
2nd Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
3rd Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
4th Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals for 2002	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

GASEOUS EFFLUENT DOSE CALCULATIONS

Doses to the maximum individual and 0 to 50 mile population resulting from the release of radioactive material in gaseous effluents from the Cooper Nuclear Station were calculated using the GASPAR computer code. Four sites were selected for individual dose calculations: the site boundary, the nearest residence, the nearest garden and the nearest cow. GASPAR implements the radiological dose models of Regulatory Guide 1.109 for determining the radiation exposure to man from four principal atmospheric exposure pathways: plume, ground, inhalation, and ingestion. Doses to the maximum individual and the population are calculated as a function of age group and pathway for significant body organs.

Tables 1 through 7 present maximum individual doses. Population doses are given in Tables 8 through 14.

Because of differences in the amount of valid meteorological data recovered, dose contributions from the quarterly periods of 2002 cannot be summed to provide semiannual doses.

Assumptions and data used for input to the GASPAR code are described in a separate section of this appendix (see page C51).

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2002

SPECIAL LOCATION NO. 1 A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 1.48E-01 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.28E-01 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.52E-01	1.52E-01	1.52E-01	1.52E-01	1.52E-01	1.52E-01	1.53E-01	2.88E-01
GROUND	9.69E-04	9.69E-04	9.69E-04	9.69E-04	9.69E-04	9.69E-04	9.69E-04	1.14E-03
VEGET								
ADULT	2.35E-05	1.48E-04	2.78E-04	1.23E-05	6.25E-06	1.03E-03	1.53E-07	0.00E+00
TEEN	3.54E-05	1.61E-04	4.04E-04	1.88E-05	9.51E-06	1.39E-03	2.86E-07	0.00E+00
CHILD	7.16E-05	1.09E-04	8.81E-04	3.00E-05	1.52E-05	2.65E-03	4.35E-07	0.00E+00
MEAT								
ADULT	4.08E-06	3.35E-05	3.29E-06	1.97E-06	1.90E-07	2.77E-05	1.24E-08	0.00E+00
TEEN	3.20E-06	1.80E-05	2.42E-06	1.54E-06	1.55E-07	2.00E-05	1.18E-08	0.00E+00
CHILD	4.95E-06	9.12E-06	4.06E-06	1.85E-06	1.96E-07	3.02E-05	1.38E-08	0.00E+00
COW MILK								
ADULT	3.09E-06	8.88E-06	1.48E-05	3.71E-06	4.41E-06	7.70E-04	1.05E-07	0.00E+00
TEEN	4.75E-06	1.07E-05	2.43E-05	6.55E-06	7.85E-06	1.22E-03	2.17E-07	0.00E+00
CHILD	8.60E-06	7.37E-06	5.44E-05	1.13E-05	1.30E-05	2.41E-03	3.33E-07	0.00E+00
INFANT	1.47E-05	6.67E-06	8.20E-05	2.57E-05	2.26E-05	5.86E-03	6.03E-07	0.00E+00
GOATMILK								
ADULT	4.14E-06	3.40E-06	3.01E-05	5.69E-06	5.84E-06	9.25E-04	3.15E-07	0.00E+00
TEEN	5.55E-06	4.47E-06	4.92E-05	1.01E-05	1.04E-05	1.46E-03	6.50E-07	0.00E+00
CHILD	8.75E-06	3.44E-06	1.10E-04	1.75E-05	1.73E-05	2.89E-03	9.99E-07	0.00E+00
INFANT	1.44E-05	3.36E-06	1.62E-04	3.85E-05	2.97E-05	7.04E-03	1.81E-06	0.00E+00
INHAL								
ADULT	3.76E-07	3.97E-06	2.19E-06	5.13E-07	5.21E-07	6.81E-05	6.71E-05	0.00E+00
TEEN	4.95E-07	5.99E-06	2.63E-06	6.95E-07	7.17E-07	8.53E-05	9.87E-05	0.00E+00
CHILD	5.63E-07	2.30E-05	3.16E-06	6.58E-07	6.71E-07	9.81E-05	8.03E-05	0.00E+00
INFANT	3.40E-07	1.95E-05	1.52E-06	5.52E-07	4.41E-07	8.99E-05	5.26E-05	0.00E+00

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2002 (CONTINUED)

SPECIAL LOCATION NO. 2 A Site Boundary
AT .60 MILES NNE

ANNUAL BETA AIR DOSE = 1.28E-01 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.98E-01 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.32E-01	1.32E-01	1.32E-01	1.32E-01	1.32E-01	1.32E-01	1.33E-01	2.50E-01
GROUND	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.07E-03	1.26E-03
VEGET								
ADULT	2.60E-05	1.64E-04	3.06E-04	1.35E-05	6.87E-06	1.13E-03	1.64E-07	0.00E+00
TEEN	3.91E-05	1.78E-04	4.44E-04	2.08E-05	1.05E-05	1.52E-03	3.07E-07	0.00E+00
CHILD	7.91E-05	1.20E-04	9.68E-04	3.30E-05	1.67E-05	2.92E-03	4.66E-07	0.00E+00
MEAT								
ADULT	4.52E-06	3.71E-05	3.62E-06	2.18E-06	2.08E-07	3.05E-05	1.33E-08	0.00E+00
TEEN	3.55E-06	2.00E-05	2.66E-06	1.70E-06	1.70E-07	2.21E-05	1.26E-08	0.00E+00
CHILD	5.48E-06	1.01E-05	4.46E-06	2.04E-06	2.14E-07	3.33E-05	1.48E-08	0.00E+00
COW MILK								
ADULT	3.39E-06	9.82E-06	1.63E-05	4.06E-06	4.84E-06	8.48E-04	1.12E-07	0.00E+00
TEEN	5.23E-06	1.18E-05	2.67E-05	7.16E-06	8.63E-06	1.34E-03	2.32E-07	0.00E+00
CHILD	9.48E-06	8.15E-06	5.97E-05	1.23E-05	1.43E-05	2.66E-03	3.57E-07	0.00E+00
INFANT	1.62E-05	7.37E-06	8.97E-05	2.82E-05	2.48E-05	6.45E-03	6.46E-07	0.00E+00
GOATMILK								
ADULT	4.50E-06	3.73E-06	3.31E-05	6.18E-06	6.40E-06	1.02E-03	3.37E-07	0.00E+00
TEEN	6.05E-06	4.90E-06	5.40E-05	1.09E-05	1.14E-05	1.61E-03	6.96E-07	0.00E+00
CHILD	9.59E-06	3.77E-06	1.21E-04	1.90E-05	1.90E-05	3.19E-03	1.07E-06	0.00E+00
INFANT	1.58E-05	3.68E-06	1.77E-04	4.19E-05	3.26E-05	7.74E-03	1.94E-06	0.00E+00
INHAL								
ADULT	3.23E-07	3.40E-06	1.88E-06	4.42E-07	4.49E-07	5.87E-05	5.75E-05	0.00E+00
TEEN	4.26E-07	5.14E-06	2.25E-06	5.98E-07	6.18E-07	7.35E-05	8.46E-05	0.00E+00
CHILD	4.84E-07	1.97E-05	2.71E-06	5.66E-07	5.79E-07	8.46E-05	6.89E-05	0.00E+00
INFANT	2.93E-07	1.67E-05	1.30E-06	4.75E-07	3.80E-07	7.75E-05	4.51E-05	0.00E+00

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2002 (CONTINUED)

SPECIAL LOCATION NO. 3 A Nearest Resident
AT .90 MILES NW

ANNUAL BETA AIR DOSE = 2.03E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.10E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.06E-02	2.06E-02	2.06E-02	2.06E-02	2.06E-02	2.06E-02	2.08E-02	3.94E-02
GROUND	1.14E-04	1.14E-04	1.14E-04	1.14E-04	1.14E-04	1.14E-04	1.14E-04	1.34E-04
VEGET								
ADULT	4.96E-06	2.58E-05	8.07E-05	2.91E-06	1.94E-06	2.86E-04	1.31E-07	0.00E+00
TEEN	7.14E-06	2.93E-05	1.25E-04	4.52E-06	2.98E-06	3.85E-04	2.45E-07	0.00E+00
CHILD	1.44E-05	2.10E-05	2.87E-04	7.46E-06	4.80E-06	7.39E-04	3.73E-07	0.00E+00
MEAT								
ADULT	5.37E-07	3.94E-06	9.62E-07	3.19E-07	7.33E-08	7.69E-06	1.07E-08	0.00E+00
TEEN	4.03E-07	2.14E-06	7.53E-07	2.51E-07	5.96E-08	5.57E-06	1.01E-08	0.00E+00
CHILD	6.03E-07	1.09E-06	1.34E-06	3.11E-07	7.56E-08	8.41E-06	1.18E-08	0.00E+00
COW MILK								
ADULT	1.09E-06	1.51E-06	4.67E-06	1.51E-06	1.41E-06	2.15E-04	8.99E-08	0.00E+00
TEEN	1.45E-06	1.90E-06	8.11E-06	2.66E-06	2.51E-06	3.40E-04	1.86E-07	0.00E+00
CHILD	2.24E-06	1.38E-06	1.91E-05	4.61E-06	4.18E-06	6.73E-04	2.86E-07	0.00E+00
INFANT	3.74E-06	1.31E-06	3.24E-05	1.00E-05	7.16E-06	1.63E-03	5.17E-07	0.00E+00
GOATMILK								
ADULT	2.22E-06	1.19E-06	9.82E-06	3.19E-06	2.18E-06	2.58E-04	2.70E-07	0.00E+00
TEEN	2.57E-06	1.60E-06	1.71E-05	5.64E-06	3.87E-06	4.08E-04	5.57E-07	0.00E+00
CHILD	3.29E-06	1.26E-06	4.01E-05	9.79E-06	6.44E-06	8.07E-04	8.56E-07	0.00E+00
INFANT	5.05E-06	1.26E-06	6.70E-05	2.03E-05	1.09E-05	1.96E-03	1.55E-06	0.00E+00
INHAL								
ADULT	1.48E-07	6.75E-07	4.24E-07	2.57E-07	2.23E-07	1.11E-05	8.65E-06	0.00E+00
TEEN	2.00E-07	1.19E-06	5.37E-07	3.53E-07	3.07E-07	1.39E-05	1.28E-05	0.00E+00
CHILD	2.40E-07	5.45E-06	6.78E-07	3.44E-07	2.88E-07	1.60E-05	1.05E-05	0.00E+00
INFANT	1.64E-07	4.84E-06	4.01E-07	3.11E-07	1.89E-07	1.47E-05	7.11E-06	0.00E+00

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2002 (CONTINUED)

SPECIAL LOCATION NO. 4 A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 1.77E-03 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.60E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.05E-03	1.05E-03	1.05E-03	1.05E-03	1.05E-03	1.05E-03	1.07E-03	2.26E-03
GROUND	1.28E-05	1.28E-05	1.28E-05	1.28E-05	1.28E-05	1.28E-05	1.28E-05	1.51E-05
VEGET								
ADULT	6.61E-07	3.33E-06	1.12E-05	3.95E-07	2.72E-07	3.95E-05	1.96E-08	0.00E+00
TEEN	9.46E-07	3.81E-06	1.75E-05	6.14E-07	4.17E-07	5.32E-05	3.68E-08	0.00E+00
CHILD	1.91E-06	2.77E-06	4.06E-05	1.02E-06	6.73E-07	1.02E-04	5.60E-08	0.00E+00
MEAT								
ADULT	6.47E-08	4.58E-07	1.34E-07	4.04E-08	1.05E-08	1.06E-06	1.60E-09	0.00E+00
TEEN	4.79E-08	2.49E-07	1.06E-07	3.19E-08	8.53E-09	7.70E-07	1.51E-09	0.00E+00
CHILD	7.09E-08	1.28E-07	1.89E-07	3.98E-08	1.08E-08	1.16E-06	1.78E-09	0.00E+00
COW MILK								
ADULT	1.54E-07	1.93E-07	6.57E-07	2.16E-07	1.98E-07	2.97E-05	1.35E-08	0.00E+00
TEEN	2.02E-07	2.45E-07	1.15E-06	3.83E-07	3.53E-07	4.69E-05	2.79E-08	0.00E+00
CHILD	3.07E-07	1.81E-07	2.71E-06	6.63E-07	5.86E-07	9.29E-05	4.28E-08	0.00E+00
INFANT	5.12E-07	1.72E-07	4.65E-06	1.44E-06	1.00E-06	2.26E-04	7.75E-08	0.00E+00
GOATMILK								
ADULT	3.25E-07	1.68E-07	1.39E-06	4.69E-07	3.11E-07	3.56E-05	4.04E-08	0.00E+00
TEEN	3.73E-07	2.27E-07	2.42E-06	8.29E-07	5.52E-07	5.63E-05	8.36E-08	0.00E+00
CHILD	4.70E-07	1.80E-07	5.72E-06	1.44E-06	9.17E-07	1.11E-04	1.28E-07	0.00E+00
INFANT	7.17E-07	1.80E-07	9.66E-06	2.98E-06	1.55E-06	2.71E-04	2.32E-07	0.00E+00
INHAL								
ADULT	5.64E-08	3.65E-07	1.88E-07	1.01E-07	9.41E-08	5.59E-06	2.27E-06	0.00E+00
TEEN	7.46E-08	6.53E-07	2.49E-07	1.39E-07	1.30E-07	7.04E-06	3.48E-06	0.00E+00
CHILD	8.84E-08	2.71E-06	3.25E-07	1.36E-07	1.22E-07	8.17E-06	2.90E-06	0.00E+00
INFANT	6.10E-08	2.36E-06	2.04E-07	1.22E-07	7.97E-08	7.48E-06	2.19E-06	0.00E+00

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2002 (CONTINUED)

SPECIAL LOCATION NO. 5 A Nearest Garden
AT 1.90 MILES NNW

ANNUAL BETA AIR DOSE = 1.41E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.09E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.39E-02	1.39E-02	1.39E-02	1.39E-02	1.39E-02	1.39E-02	1.41E-02	2.70E-02
GROUND	5.27E-05	5.27E-05	5.27E-05	5.27E-05	5.27E-05	5.27E-05	5.27E-05	6.20E-05
VEGET								
ADULT	2.07E-06	1.11E-05	3.25E-05	1.20E-06	7.76E-07	1.16E-04	4.91E-08	0.00E+00
TEEN	3.01E-06	1.25E-05	4.98E-05	1.86E-06	1.19E-06	1.56E-04	9.20E-08	0.00E+00
CHILD	6.06E-06	8.91E-06	1.14E-04	3.05E-06	1.92E-06	2.99E-04	1.40E-07	0.00E+00
MEAT								
ADULT	2.43E-07	1.83E-06	3.87E-07	1.39E-07	2.88E-08	3.11E-06	3.99E-09	0.00E+00
TEEN	1.84E-07	9.88E-07	3.01E-07	1.09E-07	2.34E-08	2.25E-06	3.78E-09	0.00E+00
CHILD	2.77E-07	5.04E-07	5.32E-07	1.35E-07	2.97E-08	3.40E-06	4.44E-09	0.00E+00
COW MILK								
ADULT	4.30E-07	6.52E-07	1.86E-06	5.88E-07	5.63E-07	8.68E-05	3.37E-08	0.00E+00
TEEN	5.79E-07	8.14E-07	3.22E-06	1.04E-06	1.00E-06	1.37E-04	6.97E-08	0.00E+00
CHILD	9.12E-07	5.88E-07	7.54E-06	1.80E-06	1.66E-06	2.72E-04	1.07E-07	0.00E+00
INFANT	1.53E-06	5.52E-07	1.27E-05	3.93E-06	2.86E-06	6.61E-04	1.94E-07	0.00E+00
GOATMILK								
ADULT	8.51E-07	4.69E-07	3.91E-06	1.22E-06	8.57E-07	1.04E-04	1.01E-07	0.00E+00
TEEN	9.95E-07	6.30E-07	6.75E-06	2.16E-06	1.52E-06	1.65E-04	2.09E-07	0.00E+00
CHILD	1.29E-06	4.98E-07	1.58E-05	3.74E-06	2.53E-06	3.26E-04	3.21E-07	0.00E+00
INFANT	2.00E-06	4.95E-07	2.61E-05	7.80E-06	4.29E-06	7.93E-04	5.81E-07	0.00E+00
INHAL								
ADULT	2.45E-07	7.19E-07	5.03E-07	4.50E-07	3.74E-07	1.07E-05	6.35E-06	0.00E+00
TEEN	3.33E-07	1.45E-06	6.66E-07	6.19E-07	5.15E-07	1.34E-05	9.56E-06	0.00E+00
CHILD	4.05E-07	7.41E-06	8.68E-07	6.06E-07	4.83E-07	1.56E-05	7.90E-06	0.00E+00
INFANT	2.84E-07	6.75E-06	5.74E-07	5.56E-07	3.18E-07	1.43E-05	5.66E-06	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2002

SPECIAL LOCATION NO. 1 A Site Boundary
AT .69 MILES NNW

ANNUAL BETA AIR DOSE = 3.79E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.87E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.56E-02	2.56E-02	2.56E-02	2.56E-02	2.56E-02	2.56E-02	2.60E-02	5.67E-02
GROUND	1.88E-03	1.88E-03	1.88E-03	1.88E-03	1.88E-03	1.88E-03	1.88E-03	2.21E-03
VEGET								
ADULT	2.66E-04	1.23E-03	6.08E-03	1.27E-04	7.14E-05	7.64E-03	1.02E-05	0.00E+00
TEEN	3.82E-04	1.47E-03	9.87E-03	2.00E-04	1.11E-04	1.03E-02	1.92E-05	0.00E+00
CHILD	8.07E-04	1.13E-03	2.37E-02	3.38E-04	1.80E-04	1.97E-02	2.91E-05	0.00E+00
MEAT								
ADULT	1.38E-05	8.80E-05	6.76E-05	1.11E-05	4.07E-06	2.06E-04	8.33E-07	0.00E+00
TEEN	9.23E-06	4.99E-05	5.55E-05	8.88E-06	3.32E-06	1.49E-04	7.89E-07	0.00E+00
CHILD	1.27E-05	2.72E-05	1.03E-04	1.14E-05	4.24E-06	2.25E-04	9.27E-07	0.00E+00
COW MILK								
ADULT	6.02E-05	6.29E-05	3.36E-04	8.08E-05	5.15E-05	5.73E-03	7.04E-06	0.00E+00
TEEN	7.17E-05	8.34E-05	6.06E-04	1.43E-04	9.16E-05	9.07E-03	1.46E-05	0.00E+00
CHILD	9.85E-05	6.47E-05	1.47E-03	2.47E-04	1.52E-04	1.79E-02	2.24E-05	0.00E+00
INFANT	1.57E-04	6.38E-05	2.67E-03	5.10E-04	2.56E-04	4.36E-02	4.05E-05	0.00E+00
GOATMILK								
ADULT	1.51E-04	9.50E-05	7.32E-04	2.08E-04	9.99E-05	6.88E-03	2.11E-05	0.00E+00
TEEN	1.64E-04	1.29E-04	1.32E-03	3.68E-04	1.77E-04	1.09E-02	4.36E-05	0.00E+00
CHILD	1.93E-04	1.04E-04	3.21E-03	6.38E-04	2.94E-04	2.15E-02	6.71E-05	0.00E+00
INFANT	2.82E-04	1.04E-04	5.75E-03	1.28E-03	4.88E-04	5.23E-02	1.21E-04	0.00E+00
INHAL								
ADULT	1.37E-06	9.50E-06	6.84E-06	2.33E-06	1.98E-06	1.22E-04	7.81E-05	0.00E+00
TEEN	1.73E-06	1.53E-05	9.19E-06	3.20E-06	2.73E-06	1.53E-04	1.20E-04	0.00E+00
CHILD	1.98E-06	5.84E-05	1.21E-05	3.14E-06	2.57E-06	1.76E-04	1.00E-04	0.00E+00
INFANT	1.32E-06	5.06E-05	7.41E-06	2.69E-06	1.65E-06	1.61E-04	7.42E-05	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2002 (CONTINUED)

SPECIAL LOCATION NO. 2 A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 1.04E-01 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.52E-01 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.01E-01	1.01E-01	1.01E-01	1.01E-01	1.01E-01	1.01E-01	1.02E-01	1.99E-01
GROUND	3.17E-03	3.17E-03	3.17E-03	3.17E-03	3.17E-03	3.17E-03	3.17E-03	3.72E-03
VEGET								
ADULT	4.82E-04	2.22E-03	1.11E-02	2.27E-04	1.29E-04	1.38E-02	1.85E-05	0.00E+00
TEEN	6.94E-04	2.66E-03	1.81E-02	3.59E-04	2.01E-04	1.86E-02	3.47E-05	0.00E+00
CHILD	1.47E-03	2.06E-03	4.35E-02	6.07E-04	3.26E-04	3.57E-02	5.28E-05	0.00E+00
MEAT								
ADULT	2.41E-05	1.52E-04	1.24E-04	1.97E-05	7.41E-06	3.72E-04	1.51E-06	0.00E+00
TEEN	1.60E-05	8.67E-05	1.02E-04	1.57E-05	6.04E-06	2.70E-04	1.43E-06	0.00E+00
CHILD	2.18E-05	4.75E-05	1.89E-04	2.03E-05	7.70E-06	4.07E-04	1.68E-06	0.00E+00
COW MILK								
ADULT	1.09E-04	1.14E-04	6.15E-04	1.46E-04	9.33E-05	1.04E-02	1.28E-05	0.00E+00
TEEN	1.30E-04	1.51E-04	1.11E-03	2.58E-04	1.66E-04	1.64E-02	2.64E-05	0.00E+00
CHILD	1.79E-04	1.17E-04	2.70E-03	4.48E-04	2.75E-04	3.25E-02	4.05E-05	0.00E+00
INFANT	2.85E-04	1.16E-04	4.89E-03	9.23E-04	4.64E-04	7.89E-02	7.33E-05	0.00E+00
GOATMILK								
ADULT	2.74E-04	1.74E-04	1.34E-03	3.78E-04	1.81E-04	1.24E-02	3.83E-05	0.00E+00
TEEN	2.98E-04	2.37E-04	2.42E-03	6.66E-04	3.21E-04	1.97E-02	7.91E-05	0.00E+00
CHILD	3.51E-04	1.90E-04	5.87E-03	1.16E-03	5.33E-04	3.90E-02	1.22E-04	0.00E+00
INFANT	5.14E-04	1.91E-04	1.05E-02	2.31E-03	8.83E-04	9.47E-02	2.20E-04	0.00E+00
INHAL								
ADULT	2.12E-06	1.55E-05	1.09E-05	3.58E-06	3.05E-06	1.97E-04	1.31E-04	0.00E+00
TEEN	2.67E-06	2.71E-05	1.47E-05	4.93E-06	4.22E-06	2.46E-04	2.00E-04	0.00E+00
CHILD	3.04E-06	1.19E-04	1.94E-05	4.83E-06	3.96E-06	2.84E-04	1.67E-04	0.00E+00
INFANT	2.01E-06	1.03E-04	1.17E-05	4.11E-06	2.54E-06	2.60E-04	1.24E-04	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2002 (CONTINUED)

SPECIAL LOCATION NO. 3 A Nearest Resident
AT .90 MILES NW

ANNUAL BETA AIR DOSE = 2.62E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.44E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.30E-02	2.30E-02	2.30E-02	2.30E-02	2.30E-02	2.30E-02	2.32E-02	4.82E-02
GROUND	5.53E-04	5.53E-04	5.53E-04	5.53E-04	5.53E-04	5.53E-04	5.53E-04	6.49E-04
VEGET								
ADULT	1.22E-04	5.58E-04	2.94E-03	5.53E-05	3.23E-05	3.45E-03	4.66E-06	0.00E+00
TEEN	1.76E-04	6.75E-04	4.79E-03	8.72E-05	5.02E-05	4.65E-03	8.73E-06	0.00E+00
CHILD	3.75E-04	5.26E-04	1.15E-02	1.48E-04	8.15E-05	8.91E-03	1.33E-05	0.00E+00
MEAT								
ADULT	5.10E-06	3.12E-05	3.25E-05	4.49E-06	1.89E-06	9.29E-05	3.80E-07	0.00E+00
TEEN	3.27E-06	1.81E-05	2.68E-05	3.60E-06	1.54E-06	6.73E-05	3.59E-07	0.00E+00
CHILD	4.34E-06	1.02E-05	4.97E-05	4.69E-06	1.96E-06	1.02E-04	4.22E-07	0.00E+00
COW MILK								
ADULT	2.73E-05	2.81E-05	1.61E-04	3.66E-05	2.34E-05	2.59E-03	3.21E-06	0.00E+00
TEEN	3.26E-05	3.76E-05	2.91E-04	6.47E-05	4.15E-05	4.09E-03	6.63E-06	0.00E+00
CHILD	4.49E-05	2.96E-05	7.09E-04	1.12E-04	6.90E-05	8.10E-03	1.02E-05	0.00E+00
INFANT	7.20E-05	2.94E-05	1.29E-03	2.31E-04	1.16E-04	1.97E-02	1.84E-05	0.00E+00
GOATMILK								
ADULT	6.92E-05	4.61E-05	3.50E-04	9.49E-05	4.54E-05	3.10E-03	9.62E-06	0.00E+00
TEEN	7.57E-05	6.28E-05	6.33E-04	1.68E-04	8.05E-05	4.91E-03	1.99E-05	0.00E+00
CHILD	9.00E-05	5.04E-05	1.54E-03	2.90E-04	1.34E-04	9.72E-03	3.06E-05	0.00E+00
INFANT	1.33E-04	5.07E-05	2.78E-03	5.82E-04	2.21E-04	2.36E-02	5.53E-05	0.00E+00
INHAL								
ADULT	1.02E-06	6.06E-06	3.94E-06	1.81E-06	1.50E-06	5.53E-05	3.16E-05	0.00E+00
TEEN	1.33E-06	1.05E-05	5.40E-06	2.49E-06	2.07E-06	6.93E-05	4.99E-05	0.00E+00
CHILD	1.59E-06	4.23E-05	7.23E-06	2.44E-06	1.94E-06	8.00E-05	4.25E-05	0.00E+00
INFANT	1.10E-06	3.72E-05	4.68E-06	2.18E-06	1.26E-06	7.32E-05	3.43E-05	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2002 (CONTINUED)

SPECIAL LOCATION NO. 4 A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 1.03E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.09E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.27E-03	7.27E-03	7.27E-03	7.27E-03	7.27E-03	7.27E-03	7.37E-03	1.77E-02
GROUND	4.69E-05	4.69E-05	4.69E-05	4.69E-05	4.69E-05	4.69E-05	4.69E-05	5.49E-05
VEGET								
ADULT	1.73E-05	7.92E-05	4.35E-04	7.60E-06	4.56E-06	4.87E-04	6.63E-07	0.00E+00
TEEN	2.51E-05	9.64E-05	7.10E-04	1.20E-05	7.09E-06	6.56E-04	1.24E-06	0.00E+00
CHILD	5.40E-05	7.58E-05	1.71E-03	2.05E-05	1.15E-05	1.26E-03	1.89E-06	0.00E+00
MEAT								
ADULT	6.01E-07	3.51E-06	4.78E-06	5.79E-07	2.71E-07	1.31E-05	5.40E-08	0.00E+00
TEEN	3.67E-07	2.09E-06	3.96E-06	4.66E-07	2.21E-07	9.48E-06	5.11E-08	0.00E+00
CHILD	4.66E-07	1.21E-06	7.37E-06	6.11E-07	2.82E-07	1.43E-05	6.00E-08	0.00E+00
COW MILK								
ADULT	3.88E-06	3.93E-06	2.37E-05	5.18E-06	3.30E-06	3.65E-04	4.56E-07	0.00E+00
TEEN	4.62E-06	5.31E-06	4.29E-05	9.15E-06	5.87E-06	5.77E-04	9.42E-07	0.00E+00
CHILD	6.39E-06	4.22E-06	1.05E-04	1.59E-05	9.76E-06	1.14E-03	1.45E-06	0.00E+00
INFANT	1.03E-05	4.22E-06	1.91E-04	3.27E-05	1.64E-05	2.78E-03	2.62E-06	0.00E+00
GOATMILK								
ADULT	9.87E-06	6.84E-06	5.13E-05	1.35E-05	6.43E-06	4.38E-04	1.37E-06	0.00E+00
TEEN	1.08E-05	9.34E-06	9.31E-05	2.38E-05	1.14E-05	6.93E-04	2.83E-06	0.00E+00
CHILD	1.30E-05	7.49E-06	2.27E-04	4.12E-05	1.89E-05	1.37E-03	4.34E-06	0.00E+00
INFANT	1.93E-05	7.55E-06	4.11E-04	8.26E-05	3.14E-05	3.33E-03	7.86E-06	0.00E+00
INHAL								
ADULT	6.88E-07	3.65E-06	2.23E-06	1.25E-06	1.03E-06	2.53E-05	1.13E-05	0.00E+00
TEEN	9.17E-07	6.29E-06	3.11E-06	1.72E-06	1.42E-06	3.18E-05	1.88E-05	0.00E+00
CHILD	1.11E-06	2.38E-05	4.21E-06	1.69E-06	1.33E-06	3.68E-05	1.65E-05	0.00E+00
INFANT	7.82E-07	2.10E-05	2.85E-06	1.54E-06	8.69E-07	3.37E-05	1.50E-05	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2002 (CONTINUED)

SPECIAL LOCATION NO. 5 A Nearest Garden
AT 1.90 MILES NNW

ANNUAL BETA AIR DOSE = 1.87E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.13E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.42E-02	1.42E-02	1.42E-02	1.42E-02	1.42E-02	1.42E-02	1.44E-02	3.29E-02
GROUND	1.85E-04	1.85E-04	1.85E-04	1.85E-04	1.85E-04	1.85E-04	1.85E-04	2.17E-04
VEGET								
ADULT	5.70E-05	2.60E-04	1.41E-03	2.52E-05	1.50E-05	1.60E-03	2.18E-06	0.00E+00
TEEN	8.25E-05	3.17E-04	2.31E-03	3.98E-05	2.34E-05	2.16E-03	4.08E-06	0.00E+00
CHILD	1.77E-04	2.48E-04	5.56E-03	6.78E-05	3.79E-05	4.14E-03	6.21E-06	0.00E+00
MEAT								
ADULT	2.10E-06	1.25E-05	1.56E-05	1.96E-06	8.88E-07	4.32E-05	1.78E-07	0.00E+00
TEEN	1.30E-06	7.35E-06	1.29E-05	1.58E-06	7.25E-07	3.13E-05	1.68E-07	0.00E+00
CHILD	1.68E-06	4.22E-06	2.39E-05	2.06E-06	9.25E-07	4.72E-05	1.97E-07	0.00E+00
COW MILK								
ADULT	1.28E-05	1.30E-05	7.71E-05	1.71E-05	1.09E-05	1.20E-03	1.50E-06	0.00E+00
TEEN	1.52E-05	1.75E-05	1.40E-04	3.01E-05	1.93E-05	1.90E-03	3.10E-06	0.00E+00
CHILD	2.10E-05	1.39E-05	3.40E-04	5.23E-05	3.21E-05	3.76E-03	4.76E-06	0.00E+00
INFANT	3.38E-05	1.38E-05	6.22E-04	1.08E-04	5.41E-05	9.15E-03	8.62E-06	0.00E+00
GOATMILK								
ADULT	3.24E-05	2.22E-05	1.67E-04	4.43E-05	2.12E-05	1.44E-03	4.50E-06	0.00E+00
TEEN	3.56E-05	3.03E-05	3.03E-04	7.82E-05	3.76E-05	2.28E-03	9.29E-06	0.00E+00
CHILD	4.26E-05	2.43E-05	7.38E-04	1.36E-04	6.24E-05	4.52E-03	1.43E-05	0.00E+00
INFANT	6.30E-05	2.45E-05	1.34E-03	2.72E-04	1.03E-04	1.10E-02	2.58E-05	0.00E+00
INHAL								
ADULT	1.15E-06	6.27E-06	3.88E-06	2.08E-06	1.71E-06	4.50E-05	2.22E-05	0.00E+00
TEEN	1.53E-06	1.08E-05	5.39E-06	2.87E-06	2.36E-06	5.66E-05	3.63E-05	0.00E+00
CHILD	1.85E-06	4.15E-05	7.28E-06	2.82E-06	2.22E-06	6.54E-05	3.15E-05	0.00E+00
INFANT	1.30E-06	3.66E-05	4.88E-06	2.55E-06	1.45E-06	5.99E-05	2.78E-05	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2002

SPECIAL LOCATION NO. 1 A Site Boundary
AT .69 MILES NNW

ANNUAL BETA AIR DOSE = 1.65E-01 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.50E-01 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.67E-01	1.67E-01	1.67E-01	1.67E-01	1.67E-01	1.67E-01	1.68E-01	3.19E-01
GROUND	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.34E-03	2.75E-03
VEGET								
ADULT	1.95E-04	9.32E-04	4.07E-03	9.75E-05	5.48E-05	6.35E-03	6.89E-06	0.00E+00
TEEN	2.80E-04	1.10E-03	6.54E-03	1.53E-04	8.49E-05	8.56E-03	1.29E-05	0.00E+00
CHILD	5.84E-04	8.26E-04	1.56E-02	2.57E-04	1.38E-04	1.64E-02	1.97E-05	0.00E+00
MEAT								
ADULT	1.36E-05	9.36E-05	4.57E-05	9.55E-06	2.87E-06	1.71E-04	5.62E-07	0.00E+00
TEEN	9.63E-06	5.19E-05	3.72E-05	7.59E-06	2.34E-06	1.24E-04	5.32E-07	0.00E+00
CHILD	1.38E-05	2.74E-05	6.84E-05	9.62E-06	2.98E-06	1.87E-04	6.25E-07	0.00E+00
COW MILK								
ADULT	4.29E-05	4.96E-05	2.27E-04	5.77E-05	3.95E-05	4.76E-03	4.75E-06	0.00E+00
TEEN	5.23E-05	6.45E-05	4.06E-04	1.02E-04	7.03E-05	7.53E-03	9.81E-06	0.00E+00
CHILD	7.37E-05	4.89E-05	9.80E-04	1.77E-04	1.17E-04	1.49E-02	1.51E-05	0.00E+00
INFANT	1.18E-04	4.75E-05	1.75E-03	3.67E-04	1.98E-04	3.62E-02	2.73E-05	0.00E+00
GOATMILK								
ADULT	1.03E-04	6.26E-05	4.92E-04	1.44E-04	7.31E-05	5.71E-03	1.42E-05	0.00E+00
TEEN	1.14E-04	8.51E-05	8.81E-04	2.54E-04	1.30E-04	9.04E-03	2.94E-05	0.00E+00
CHILD	1.34E-04	6.80E-05	2.13E-03	4.41E-04	2.15E-04	1.79E-02	4.52E-05	0.00E+00
INFANT	1.97E-04	6.82E-05	3.76E-03	8.87E-04	3.58E-04	4.35E-02	8.19E-05	0.00E+00
INHAL								
ADULT	1.50E-06	1.16E-05	7.99E-06	2.45E-06	2.15E-06	1.69E-04	1.28E-04	0.00E+00
TEEN	1.90E-06	1.99E-05	1.05E-05	3.36E-06	2.97E-06	2.12E-04	1.92E-04	0.00E+00
CHILD	2.15E-06	8.80E-05	1.36E-05	3.28E-06	2.79E-06	2.44E-04	1.59E-04	0.00E+00
INFANT	1.39E-06	7.62E-05	7.88E-06	2.77E-06	1.79E-06	2.24E-04	1.12E-04	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2002 (CONTINUED)

SPECIAL LOCATION NO. 2 A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 2.47E-01 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.75E-01 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.50E-01	2.50E-01	2.50E-01	2.50E-01	2.50E-01	2.50E-01	2.52E-01	4.78E-01
GROUND	3.86E-03	3.86E-03	3.86E-03	3.86E-03	3.86E-03	3.86E-03	3.86E-03	4.54E-03
VEGET								
ADULT	3.32E-04	1.59E-03	7.00E-03	1.66E-04	9.36E-05	1.08E-02	1.18E-05	0.00E+00
TEEN	4.78E-04	1.87E-03	1.13E-02	2.60E-04	1.45E-04	1.46E-02	2.21E-05	0.00E+00
CHILD	9.99E-04	1.41E-03	2.69E-02	4.37E-04	2.35E-04	2.80E-02	3.37E-05	0.00E+00
MEAT								
ADULT	2.28E-05	1.56E-04	7.86E-05	1.61E-05	4.92E-06	2.92E-04	9.63E-07	0.00E+00
TEEN	1.60E-05	8.65E-05	6.40E-05	1.28E-05	4.01E-06	2.11E-04	9.11E-07	0.00E+00
CHILD	2.30E-05	4.57E-05	1.18E-04	1.62E-05	5.10E-06	3.19E-04	1.07E-06	0.00E+00
COW MILK								
ADULT	7.34E-05	8.43E-05	3.90E-04	9.87E-05	6.75E-05	8.12E-03	8.14E-06	0.00E+00
TEEN	8.93E-05	1.10E-04	6.98E-04	1.74E-04	1.20E-04	1.29E-02	1.68E-05	0.00E+00
CHILD	1.26E-04	8.34E-05	1.69E-03	3.02E-04	1.99E-04	2.54E-02	2.58E-05	0.00E+00
INFANT	2.02E-04	8.11E-05	3.02E-03	6.28E-04	3.38E-04	6.18E-02	4.68E-05	0.00E+00
GOATMILK								
ADULT	1.77E-04	1.08E-04	8.45E-04	2.47E-04	1.25E-04	9.75E-03	2.44E-05	0.00E+00
TEEN	1.95E-04	1.47E-04	1.52E-03	4.35E-04	2.22E-04	1.54E-02	5.04E-05	0.00E+00
CHILD	2.31E-04	1.17E-04	3.66E-03	7.55E-04	3.69E-04	3.05E-02	7.75E-05	0.00E+00
INFANT	3.39E-04	1.18E-04	6.48E-03	1.52E-03	6.13E-04	7.42E-02	1.40E-04	0.00E+00
INHAL								
ADULT	2.23E-06	1.73E-05	1.19E-05	3.62E-06	3.18E-06	2.53E-04	1.92E-04	0.00E+00
TEEN	2.81E-06	2.97E-05	1.56E-05	4.97E-06	4.38E-06	3.17E-04	2.89E-04	0.00E+00
CHILD	3.17E-06	1.31E-04	2.02E-05	4.84E-06	4.12E-06	3.65E-04	2.39E-04	0.00E+00
INFANT	2.05E-06	1.14E-04	1.17E-05	4.08E-06	2.65E-06	3.34E-04	1.69E-04	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2002 (CONTINUED)

SPECIAL LOCATION NO. 3 A Nearest Resident
AT .90 MILES NW

ANNUAL BETA AIR DOSE = 4.57E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 6.59E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.39E-02	4.39E-02	4.39E-02	4.39E-02	4.39E-02	4.39E-02	4.44E-02	8.68E-02
GROUND	5.89E-04	5.89E-04	5.89E-04	5.89E-04	5.89E-04	5.89E-04	5.89E-04	6.91E-04
VEGET								
ADULT	8.79E-05	4.08E-04	2.04E-03	4.17E-05	2.50E-05	2.85E-03	3.27E-06	0.00E+00
TEEN	1.27E-04	4.90E-04	3.30E-03	6.56E-05	3.87E-05	3.84E-03	6.13E-06	0.00E+00
CHILD	2.69E-04	3.78E-04	7.92E-03	1.11E-04	6.29E-05	7.35E-03	9.33E-06	0.00E+00
MEAT								
ADULT	4.38E-06	2.79E-05	2.27E-05	3.55E-06	1.37E-06	7.66E-05	2.67E-07	0.00E+00
TEEN	2.92E-06	1.59E-05	1.86E-05	2.84E-06	1.11E-06	5.55E-05	2.52E-07	0.00E+00
CHILD	4.01E-06	8.69E-06	3.44E-05	3.66E-06	1.42E-06	8.38E-05	2.97E-07	0.00E+00
COW MILK								
ADULT	1.99E-05	2.10E-05	1.12E-04	2.68E-05	1.81E-05	2.14E-03	2.25E-06	0.00E+00
TEEN	2.40E-05	2.79E-05	2.02E-04	4.73E-05	3.22E-05	3.38E-03	4.66E-06	0.00E+00
CHILD	3.36E-05	2.17E-05	4.92E-04	8.20E-05	5.35E-05	6.69E-03	7.16E-06	0.00E+00
INFANT	5.41E-05	2.15E-05	8.90E-04	1.70E-04	9.04E-05	1.62E-02	1.29E-05	0.00E+00
GOATMILK								
ADULT	4.91E-05	3.18E-05	2.43E-04	6.78E-05	3.39E-05	2.56E-03	6.76E-06	0.00E+00
TEEN	5.40E-05	4.33E-05	4.39E-04	1.20E-04	6.02E-05	4.05E-03	1.40E-05	0.00E+00
CHILD	6.46E-05	3.47E-05	1.06E-03	2.08E-04	9.99E-05	8.02E-03	2.15E-05	0.00E+00
INFANT	9.56E-05	3.49E-05	1.91E-03	4.17E-04	1.66E-04	1.95E-02	3.88E-05	0.00E+00
INHAL								
ADULT	9.56E-07	5.24E-06	3.46E-06	1.69E-06	1.42E-06	5.77E-05	3.59E-05	0.00E+00
TEEN	1.26E-06	9.23E-06	4.67E-06	2.33E-06	1.95E-06	7.23E-05	5.54E-05	0.00E+00
CHILD	1.50E-06	3.92E-05	6.19E-06	2.28E-06	1.83E-06	8.34E-05	4.65E-05	0.00E+00
INFANT	1.03E-06	3.45E-05	3.94E-06	2.03E-06	1.19E-06	7.64E-05	3.53E-05	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2002 (CONTINUED)

SPECIAL LOCATION NO. 4 A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 1.35E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.61E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.08E-02	1.08E-02	1.08E-02	1.08E-02	1.08E-02	1.08E-02	1.09E-02	2.41E-02
GROUND	5.36E-05	5.36E-05	5.36E-05	5.36E-05	5.36E-05	5.36E-05	5.36E-05	6.28E-05
VEGET								
ADULT	1.22E-05	5.61E-05	2.95E-04	5.66E-06	3.49E-06	3.95E-04	4.65E-07	0.00E+00
TEEN	1.77E-05	6.79E-05	4.81E-04	8.92E-06	5.42E-06	5.32E-04	8.72E-07	0.00E+00
CHILD	3.77E-05	5.30E-05	1.16E-03	1.52E-05	8.79E-06	1.02E-03	1.33E-06	0.00E+00
MEAT								
ADULT	5.01E-07	3.02E-06	3.28E-06	4.47E-07	1.94E-07	1.06E-05	3.79E-08	0.00E+00
TEEN	3.20E-07	1.75E-06	2.70E-06	3.59E-07	1.59E-07	7.70E-06	3.59E-08	0.00E+00
CHILD	4.23E-07	9.87E-07	5.01E-06	4.67E-07	2.02E-07	1.16E-05	4.22E-08	0.00E+00
COW MILK								
ADULT	2.80E-06	2.84E-06	1.62E-05	3.77E-06	2.53E-06	2.96E-04	3.20E-07	0.00E+00
TEEN	3.36E-06	3.82E-06	2.93E-05	6.66E-06	4.51E-06	4.69E-04	6.62E-07	0.00E+00
CHILD	4.69E-06	3.01E-06	7.14E-05	1.16E-05	7.49E-06	9.28E-04	1.02E-06	0.00E+00
INFANT	7.57E-06	2.99E-06	1.30E-04	2.40E-05	1.27E-05	2.26E-03	1.84E-06	0.00E+00
GOATMILK								
ADULT	6.98E-06	4.64E-06	3.51E-05	9.61E-06	4.77E-06	3.56E-04	9.60E-07	0.00E+00
TEEN	7.69E-06	6.33E-06	6.35E-05	1.70E-05	8.47E-06	5.63E-04	1.98E-06	0.00E+00
CHILD	9.24E-06	5.07E-06	1.55E-04	2.94E-05	1.41E-05	1.11E-03	3.05E-06	0.00E+00
INFANT	1.37E-05	5.11E-06	2.79E-04	5.91E-05	2.34E-05	2.71E-03	5.52E-06	0.00E+00
INHAL								
ADULT	8.04E-07	3.57E-06	2.27E-06	1.47E-06	1.21E-06	2.81E-05	1.24E-05	0.00E+00
TEEN	1.08E-06	6.43E-06	3.15E-06	2.03E-06	1.67E-06	3.53E-05	2.03E-05	0.00E+00
CHILD	1.31E-06	2.64E-05	4.25E-06	1.99E-06	1.56E-06	4.09E-05	1.76E-05	0.00E+00
INFANT	9.24E-07	2.36E-05	2.89E-06	1.82E-06	1.02E-06	3.75E-05	1.56E-05	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2002 (CONTINUED)

SPECIAL LOCATION NO. 5 A Nearest Garden
AT 1.90 MILES NNW

ANNUAL BETA AIR DOSE = 2.85E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.74E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.50E-02	2.50E-02	2.50E-02	2.50E-02	2.50E-02	2.50E-02	2.53E-02	5.25E-02
GROUND	2.14E-04	2.14E-04	2.14E-04	2.14E-04	2.14E-04	2.14E-04	2.14E-04	2.51E-04
VEGET								
ADULT	3.90E-05	1.80E-04	9.22E-04	1.82E-05	1.11E-05	1.26E-03	1.47E-06	0.00E+00
TEEN	5.62E-05	2.17E-04	1.50E-03	2.87E-05	1.72E-05	1.70E-03	2.75E-06	0.00E+00
CHILD	1.20E-04	1.68E-04	3.60E-03	4.87E-05	2.79E-05	3.25E-03	4.18E-06	0.00E+00
MEAT								
ADULT	1.76E-06	1.09E-05	1.02E-05	1.49E-06	6.13E-07	3.39E-05	1.19E-07	0.00E+00
TEEN	1.15E-06	6.28E-06	8.43E-06	1.20E-06	5.00E-07	2.46E-05	1.13E-07	0.00E+00
CHILD	1.55E-06	3.48E-06	1.56E-05	1.55E-06	6.37E-07	3.71E-05	1.33E-07	0.00E+00
COW MILK								
ADULT	8.85E-06	9.18E-06	5.08E-05	1.19E-05	8.05E-06	9.45E-04	1.01E-06	0.00E+00
TEEN	1.07E-05	1.23E-05	9.16E-05	2.11E-05	1.43E-05	1.50E-03	2.09E-06	0.00E+00
CHILD	1.49E-05	9.60E-06	2.23E-04	3.66E-05	2.38E-05	2.96E-03	3.21E-06	0.00E+00
INFANT	2.40E-05	9.52E-06	4.04E-04	7.59E-05	4.02E-05	7.19E-03	5.80E-06	0.00E+00
GOATMILK								
ADULT	2.20E-05	1.44E-05	1.10E-04	3.03E-05	1.51E-05	1.13E-03	3.03E-06	0.00E+00
TEEN	2.42E-05	1.97E-05	1.99E-04	5.36E-05	2.68E-05	1.79E-03	6.26E-06	0.00E+00
CHILD	2.90E-05	1.58E-05	4.82E-04	9.29E-05	4.45E-05	3.55E-03	9.61E-06	0.00E+00
INFANT	4.30E-05	1.59E-05	8.67E-04	1.87E-04	7.40E-05	8.63E-03	1.74E-05	0.00E+00
INHAL								
ADULT	1.20E-06	5.63E-06	3.63E-06	2.18E-06	1.79E-06	4.89E-05	2.51E-05	0.00E+00
TEEN	1.60E-06	1.01E-05	4.99E-06	3.00E-06	2.47E-06	6.14E-05	4.00E-05	0.00E+00
CHILD	1.94E-06	4.18E-05	6.70E-06	2.95E-06	2.32E-06	7.10E-05	3.42E-05	0.00E+00
INFANT	1.36E-06	3.72E-05	4.47E-06	2.67E-06	1.52E-06	6.50E-05	2.85E-05	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2002

SPECIAL LOCATION NO. 1 A Site Boundary
AT .69 MILES NNW

ANNUAL BETA AIR DOSE = 7.52E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.15E-01 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.62E-02	7.62E-02	7.62E-02	7.62E-02	7.62E-02	7.62E-02	7.70E-02	1.45E-01
GROUND	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.50E-03
VEGET								
ADULT	1.67E-04	7.94E-04	3.47E-03	8.33E-05	4.71E-05	5.58E-03	5.63E-06	0.00E+00
TEEN	2.42E-04	9.31E-04	5.58E-03	1.31E-04	7.28E-05	7.51E-03	1.06E-05	0.00E+00
CHILD	5.06E-04	6.98E-04	1.33E-02	2.19E-04	1.18E-04	1.44E-02	1.61E-05	0.00E+00
MEAT								
ADULT	1.22E-05	7.73E-05	3.86E-05	8.30E-06	2.18E-06	1.50E-04	4.59E-07	0.00E+00
TEEN	8.70E-06	4.22E-05	3.14E-05	6.59E-06	1.77E-06	1.09E-04	4.35E-07	0.00E+00
CHILD	1.26E-05	2.18E-05	5.78E-05	8.33E-06	2.24E-06	1.64E-04	5.11E-07	0.00E+00
COW MILK								
ADULT	3.60E-05	4.35E-05	1.92E-04	4.83E-05	3.41E-05	4.20E-03	3.88E-06	0.00E+00
TEEN	4.43E-05	5.64E-05	3.45E-04	8.53E-05	6.06E-05	6.65E-03	8.02E-06	0.00E+00
CHILD	6.35E-05	4.27E-05	8.33E-04	1.48E-04	1.01E-04	1.32E-02	1.23E-05	0.00E+00
INFANT	1.03E-04	4.14E-05	1.49E-03	3.09E-04	1.71E-04	3.20E-02	2.23E-05	0.00E+00
GOATMILK								
ADULT	8.56E-05	5.39E-05	4.17E-04	1.19E-04	6.19E-05	5.04E-03	1.16E-05	0.00E+00
TEEN	9.47E-05	7.31E-05	7.47E-04	2.10E-04	1.10E-04	7.98E-03	2.41E-05	0.00E+00
CHILD	1.14E-04	5.84E-05	1.80E-03	3.64E-04	1.82E-04	1.58E-02	3.70E-05	0.00E+00
INFANT	1.69E-04	5.86E-05	3.20E-03	7.35E-04	3.04E-04	3.84E-02	6.69E-05	0.00E+00
INHAL								
ADULT	1.25E-06	8.90E-06	6.28E-06	2.00E-06	2.45E-06	3.17E-04	1.11E-04	0.00E+00
TEEN	1.48E-06	1.57E-05	8.05E-06	2.73E-06	3.38E-06	4.01E-04	1.66E-04	0.00E+00
CHILD	1.54E-06	7.53E-05	1.03E-05	2.65E-06	3.17E-06	4.71E-04	1.37E-04	0.00E+00
INFANT	9.74E-07	6.48E-05	5.88E-06	2.28E-06	2.08E-06	4.32E-04	9.50E-05	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 2 A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 1.12E-01 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.71E-01 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.14E-01	1.14E-01	1.14E-01	1.14E-01	1.14E-01	1.14E-01	1.15E-01	2.17E-01
GROUND	3.29E-03	3.29E-03	3.29E-03	3.29E-03	3.29E-03	3.29E-03	3.29E-03	3.87E-03
VEGET								
ADULT	2.44E-04	1.15E-03	4.93E-03	1.25E-04	7.10E-05	8.49E-03	8.35E-06	0.00E+00
TEEN	3.52E-04	1.35E-03	7.91E-03	1.96E-04	1.10E-04	1.14E-02	1.56E-05	0.00E+00
CHILD	7.32E-04	1.01E-03	1.88E-02	3.28E-04	1.77E-04	2.19E-02	2.38E-05	0.00E+00
MEAT								
ADULT	1.85E-05	1.19E-04	5.51E-05	1.26E-05	3.26E-06	2.28E-04	6.81E-07	0.00E+00
TEEN	1.33E-05	6.47E-05	4.48E-05	9.97E-06	2.64E-06	1.65E-04	6.44E-07	0.00E+00
CHILD	1.92E-05	3.33E-05	8.22E-05	1.26E-05	3.35E-06	2.49E-04	7.57E-07	0.00E+00
COW MILK								
ADULT	5.35E-05	6.37E-05	2.76E-04	7.22E-05	5.14E-05	6.38E-03	5.75E-06	0.00E+00
TEEN	6.59E-05	8.24E-05	4.93E-04	1.27E-04	9.14E-05	1.01E-02	1.19E-05	0.00E+00
CHILD	9.41E-05	6.21E-05	1.19E-03	2.21E-04	1.52E-04	2.00E-02	1.83E-05	0.00E+00
INFANT	1.52E-04	6.01E-05	2.12E-03	4.62E-04	2.57E-04	4.87E-02	3.31E-05	0.00E+00
GOATMILK								
ADULT	1.27E-04	7.66E-05	5.97E-04	1.77E-04	9.28E-05	7.66E-03	1.73E-05	0.00E+00
TEEN	1.40E-04	1.04E-04	1.07E-03	3.12E-04	1.65E-04	1.21E-02	3.57E-05	0.00E+00
CHILD	1.67E-04	8.30E-05	2.58E-03	5.42E-04	2.74E-04	2.40E-02	5.48E-05	0.00E+00
INFANT	2.46E-04	8.32E-05	4.55E-03	1.09E-03	4.56E-04	5.84E-02	9.92E-05	0.00E+00
INHAL								
ADULT	1.79E-06	1.24E-05	8.76E-06	2.90E-06	3.59E-06	4.67E-04	1.59E-04	0.00E+00
TEEN	2.14E-06	2.20E-05	1.12E-05	3.97E-06	4.95E-06	5.90E-04	2.38E-04	0.00E+00
CHILD	2.21E-06	1.07E-04	1.42E-05	3.84E-06	4.64E-06	6.93E-04	1.96E-04	0.00E+00
INFANT	1.40E-06	9.24E-05	8.09E-06	3.31E-06	3.05E-06	6.36E-04	1.35E-04	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 3 A Nearest Resident
AT .90 MILES NW

ANNUAL BETA AIR DOSE = 3.44E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 5.10E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.39E-02	3.39E-02	3.39E-02	3.39E-02	3.39E-02	3.39E-02	3.43E-02	6.58E-02
GROUND	1.22E-03	1.22E-03	1.22E-03	1.22E-03	1.22E-03	1.22E-03	1.22E-03	1.44E-03
VEGET								
ADULT	1.59E-04	7.75E-04	3.85E-03	6.32E-05	3.49E-05	3.82E-03	4.79E-06	0.00E+00
TEEN	2.35E-04	9.26E-04	6.27E-03	9.94E-05	5.41E-05	5.14E-03	8.97E-06	0.00E+00
CHILD	5.09E-04	7.12E-04	1.51E-02	1.67E-04	8.77E-05	9.85E-03	1.36E-05	0.00E+00
MEAT								
ADULT	8.22E-06	4.80E-05	4.17E-05	5.90E-06	1.71E-06	1.03E-04	3.90E-07	0.00E+00
TEEN	5.73E-06	2.65E-05	3.44E-05	4.70E-06	1.39E-06	7.42E-05	3.69E-07	0.00E+00
CHILD	8.19E-06	1.39E-05	6.37E-05	6.00E-06	1.77E-06	1.12E-04	4.34E-07	0.00E+00
COW MILK								
ADULT	3.01E-05	3.99E-05	2.04E-04	3.86E-05	2.52E-05	2.87E-03	3.29E-06	0.00E+00
TEEN	3.71E-05	5.28E-05	3.69E-04	6.81E-05	4.48E-05	4.55E-03	6.81E-06	0.00E+00
CHILD	5.42E-05	4.10E-05	8.99E-04	1.18E-04	7.45E-05	9.00E-03	1.05E-05	0.00E+00
INFANT	8.84E-05	4.03E-05	1.64E-03	2.44E-04	1.26E-04	2.19E-02	1.89E-05	0.00E+00
GOATMILK								
ADULT	7.37E-05	5.97E-05	4.40E-04	9.83E-05	4.81E-05	3.45E-03	9.88E-06	0.00E+00
TEEN	8.26E-05	8.13E-05	7.96E-04	1.74E-04	8.53E-05	5.45E-03	2.04E-05	0.00E+00
CHILD	1.04E-04	6.51E-05	1.94E-03	3.01E-04	1.42E-04	1.08E-02	3.14E-05	0.00E+00
INFANT	1.57E-04	6.55E-05	3.50E-03	6.04E-04	2.35E-04	2.63E-02	5.68E-05	0.00E+00
INHAL								
ADULT	7.25E-07	7.65E-06	5.31E-06	1.07E-06	1.23E-06	1.47E-04	6.10E-05	0.00E+00
TEEN	8.75E-07	1.21E-05	7.14E-06	1.46E-06	1.69E-06	1.86E-04	9.43E-05	0.00E+00
CHILD	9.45E-07	4.63E-05	9.44E-06	1.42E-06	1.59E-06	2.18E-04	7.92E-05	0.00E+00
INFANT	6.10E-07	3.93E-05	5.84E-06	1.23E-06	1.04E-06	2.00E-04	6.06E-05	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 4 A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 2.26E-03 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.07E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.38E-03	1.40E-03	3.34E-03
GROUND	4.33E-05	4.33E-05	4.33E-05	4.33E-05	4.33E-05	4.33E-05	4.33E-05	5.09E-05
VEGET								
ADULT	8.98E-06	4.45E-05	2.36E-04	3.06E-06	1.65E-06	1.67E-04	2.53E-07	0.00E+00
TEEN	1.34E-05	5.38E-05	3.86E-04	4.82E-06	2.56E-06	2.25E-04	4.73E-07	0.00E+00
CHILD	2.97E-05	4.19E-05	9.33E-04	8.16E-06	4.17E-06	4.31E-04	7.20E-07	0.00E+00
MEAT								
ADULT	3.56E-07	1.88E-06	2.53E-06	2.69E-07	8.54E-08	4.48E-06	2.06E-08	0.00E+00
TEEN	2.41E-07	1.06E-06	2.09E-06	2.15E-07	6.93E-08	3.25E-06	1.95E-08	0.00E+00
CHILD	3.41E-07	5.69E-07	3.90E-06	2.77E-07	8.79E-08	4.90E-06	2.29E-08	0.00E+00
COW MILK								
ADULT	1.57E-06	2.21E-06	1.23E-05	1.94E-06	1.19E-06	1.25E-04	1.74E-07	0.00E+00
TEEN	1.93E-06	2.97E-06	2.23E-05	3.43E-06	2.12E-06	1.99E-04	3.59E-07	0.00E+00
CHILD	2.86E-06	2.33E-06	5.44E-05	5.95E-06	3.51E-06	3.93E-04	5.51E-07	0.00E+00
INFANT	4.69E-06	2.32E-06	9.99E-05	1.22E-05	5.91E-06	9.56E-04	9.97E-07	0.00E+00
GOATMILK								
ADULT	3.92E-06	3.65E-06	2.64E-05	5.08E-06	2.37E-06	1.51E-04	5.20E-07	0.00E+00
TEEN	4.43E-06	4.99E-06	4.79E-05	8.97E-06	4.20E-06	2.38E-04	1.08E-06	0.00E+00
CHILD	5.74E-06	4.00E-06	1.17E-04	1.55E-05	6.97E-06	4.72E-04	1.65E-06	0.00E+00
INFANT	8.82E-06	4.03E-06	2.13E-04	3.11E-05	1.15E-05	1.15E-03	2.99E-06	0.00E+00
INHAL								
ADULT	1.38E-07	2.17E-06	1.50E-06	1.75E-07	1.73E-07	1.67E-05	1.06E-05	0.00E+00
TEEN	1.70E-07	3.05E-06	2.08E-06	2.40E-07	2.39E-07	2.11E-05	1.72E-05	0.00E+00
CHILD	1.94E-07	8.42E-06	2.82E-06	2.35E-07	2.24E-07	2.47E-05	1.49E-05	0.00E+00
INFANT	1.29E-07	6.96E-06	1.82E-06	2.06E-07	1.47E-07	2.26E-05	1.31E-05	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 5 A Nearest Garden
AT 1.90 MILES NNW

ANNUAL BETA AIR DOSE = 9.66E-03 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.39E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	9.22E-03	9.22E-03	9.22E-03	9.22E-03	9.22E-03	9.22E-03	9.32E-03	1.83E-02
GROUND	1.81E-04	1.81E-04	1.81E-04	1.81E-04	1.81E-04	1.81E-04	1.81E-04	2.13E-04
VEGET								
ADULT	2.95E-05	1.45E-04	7.49E-04	1.08E-05	5.91E-06	6.22E-04	8.57E-07	0.00E+00
TEEN	4.39E-05	1.75E-04	1.22E-03	1.70E-05	9.17E-06	8.38E-04	1.61E-06	0.00E+00
CHILD	9.63E-05	1.35E-04	2.95E-03	2.88E-05	1.49E-05	1.61E-03	2.44E-06	0.00E+00
MEAT								
ADULT	1.33E-06	7.42E-06	8.05E-06	9.79E-07	2.98E-07	1.67E-05	6.98E-08	0.00E+00
TEEN	9.16E-07	4.13E-06	6.65E-06	7.81E-07	2.42E-07	1.21E-05	6.60E-08	0.00E+00
CHILD	1.30E-06	2.19E-06	1.24E-05	1.00E-06	3.07E-07	1.83E-05	7.76E-08	0.00E+00
COW MILK								
ADULT	5.36E-06	7.34E-06	3.93E-05	6.74E-06	4.27E-06	4.68E-04	5.89E-07	0.00E+00
TEEN	6.59E-06	9.78E-06	7.11E-05	1.19E-05	7.58E-06	7.41E-04	1.22E-06	0.00E+00
CHILD	9.70E-06	7.64E-06	1.73E-04	2.06E-05	1.26E-05	1.47E-03	1.87E-06	0.00E+00
INFANT	1.59E-05	7.56E-06	3.17E-04	4.25E-05	2.12E-05	3.57E-03	3.38E-06	0.00E+00
GOATMILK								
ADULT	1.33E-05	1.16E-05	8.45E-05	1.74E-05	8.31E-06	5.62E-04	1.77E-06	0.00E+00
TEEN	1.49E-05	1.58E-05	1.53E-04	3.07E-05	1.47E-05	8.89E-04	3.65E-06	0.00E+00
CHILD	1.91E-05	1.27E-05	3.73E-04	5.33E-05	2.45E-05	1.76E-03	5.61E-06	0.00E+00
INFANT	2.91E-05	1.28E-05	6.78E-04	1.07E-04	4.05E-05	4.28E-03	1.02E-05	0.00E+00
INHAL								
ADULT	2.63E-07	3.49E-06	2.40E-06	3.60E-07	3.87E-07	4.23E-05	2.12E-05	0.00E+00
TEEN	3.21E-07	5.24E-06	3.30E-06	4.94E-07	5.34E-07	5.35E-05	3.36E-05	0.00E+00
CHILD	3.57E-07	1.75E-05	4.42E-06	4.81E-07	5.01E-07	6.27E-05	2.87E-05	0.00E+00
INFANT	2.33E-07	1.48E-05	2.81E-06	4.19E-07	3.29E-07	5.75E-05	2.36E-05	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2002

SPECIAL LOCATION NO. 1 A Site Boundary
AT .69 MILES NNW

ANNUAL BETA AIR DOSE = 1.16E-01 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.80E-01 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.19E-01	1.19E-01	1.19E-01	1.19E-01	1.19E-01	1.19E-01	1.21E-01	2.26E-01
GROUND	5.36E-04	5.36E-04	5.36E-04	5.36E-04	5.36E-04	5.36E-04	5.36E-04	6.31E-04
VEGET								
ADULT	8.88E-05	2.96E-04	3.23E-03	1.57E-05	1.93E-05	3.60E-03	9.64E-08	0.00E+00
TEEN	1.32E-04	3.54E-04	4.74E-03	2.38E-05	2.92E-05	4.86E-03	1.81E-07	0.00E+00
CHILD	2.87E-04	2.72E-04	1.04E-02	3.94E-05	4.71E-05	9.30E-03	2.75E-07	0.00E+00
MEAT								
ADULT	3.19E-06	2.08E-05	3.64E-05	1.35E-06	5.31E-07	9.70E-05	7.86E-09	0.00E+00
TEEN	2.47E-06	1.14E-05	2.68E-05	1.06E-06	4.34E-07	7.02E-05	7.44E-09	0.00E+00
CHILD	3.89E-06	5.93E-06	4.51E-05	1.30E-06	5.51E-07	1.06E-04	8.74E-09	0.00E+00
COW MILK								
ADULT	8.96E-06	1.67E-05	1.53E-04	9.15E-06	1.45E-05	2.70E-03	6.65E-08	0.00E+00
TEEN	1.46E-05	2.21E-05	2.49E-04	1.62E-05	2.59E-05	4.28E-03	1.37E-07	0.00E+00
CHILD	2.91E-05	1.71E-05	5.57E-04	2.82E-05	4.30E-05	8.46E-03	2.11E-07	0.00E+00
INFANT	4.97E-05	1.68E-05	8.21E-04	6.79E-05	7.48E-05	2.06E-02	3.82E-07	0.00E+00
GOATMILK								
ADULT	1.40E-05	2.51E-05	3.16E-04	1.18E-05	1.78E-05	3.24E-03	1.99E-07	0.00E+00
TEEN	2.23E-05	3.42E-05	5.15E-04	2.09E-05	3.17E-05	5.13E-03	4.12E-07	0.00E+00
CHILD	4.48E-05	2.74E-05	1.15E-03	3.65E-05	5.27E-05	1.02E-02	6.33E-07	0.00E+00
INFANT	7.43E-05	2.76E-05	1.68E-03	8.65E-05	9.14E-05	2.47E-02	1.15E-06	0.00E+00
INHAL								
ADULT	2.11E-06	1.69E-05	4.72E-05	2.14E-06	3.47E-06	5.29E-04	1.23E-04	0.00E+00
TEEN	2.69E-06	2.78E-05	5.73E-05	2.94E-06	4.78E-06	6.63E-04	1.95E-04	0.00E+00
CHILD	3.09E-06	1.14E-04	6.98E-05	2.87E-06	4.49E-06	7.66E-04	1.67E-04	0.00E+00
INFANT	1.85E-06	9.75E-05	3.39E-05	2.63E-06	2.96E-06	7.02E-04	1.33E-04	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 2 A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 1.22E-01 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.89E-01 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.26E-01	1.26E-01	1.26E-01	1.26E-01	1.26E-01	1.26E-01	1.27E-01	2.38E-01
GROUND	8.93E-04	8.93E-04	8.93E-04	8.93E-04	8.93E-04	8.93E-04	8.93E-04	1.05E-03
VEGET								
ADULT	1.52E-04	5.06E-04	5.45E-03	2.89E-05	3.40E-05	6.23E-03	3.99E-07	0.00E+00
TEEN	2.24E-04	6.06E-04	8.00E-03	4.40E-05	5.17E-05	8.40E-03	7.48E-07	0.00E+00
CHILD	4.87E-04	4.65E-04	1.76E-02	7.31E-05	8.33E-05	1.61E-02	1.14E-06	0.00E+00
MEAT								
ADULT	5.44E-06	3.47E-05	6.14E-05	2.43E-06	9.76E-07	1.68E-04	3.25E-08	0.00E+00
TEEN	4.17E-06	1.91E-05	4.53E-05	1.91E-06	7.97E-07	1.21E-04	3.08E-08	0.00E+00
CHILD	6.54E-06	9.91E-06	7.64E-05	2.36E-06	1.01E-06	1.83E-04	3.62E-08	0.00E+00
COW MILK								
ADULT	1.63E-05	2.86E-05	2.59E-04	1.72E-05	2.56E-05	4.67E-03	2.75E-07	0.00E+00
TEEN	2.59E-05	3.78E-05	4.23E-04	3.05E-05	4.56E-05	7.39E-03	5.68E-07	0.00E+00
CHILD	5.04E-05	2.93E-05	9.48E-04	5.31E-05	7.58E-05	1.46E-02	8.74E-07	0.00E+00
INFANT	8.59E-05	2.88E-05	1.41E-03	1.26E-04	1.32E-04	3.55E-02	1.58E-06	0.00E+00
GOATMILK								
ADULT	2.67E-05	4.31E-05	5.36E-04	2.47E-05	3.22E-05	5.61E-03	8.25E-07	0.00E+00
TEEN	4.08E-05	5.87E-05	8.76E-04	4.37E-05	5.74E-05	8.87E-03	1.70E-06	0.00E+00
CHILD	7.86E-05	4.71E-05	1.96E-03	7.61E-05	9.53E-05	1.76E-02	2.62E-06	0.00E+00
INFANT	1.29E-04	4.74E-05	2.88E-03	1.75E-04	1.65E-04	4.27E-02	4.74E-06	0.00E+00
INHAL								
ADULT	2.24E-06	1.79E-05	4.98E-05	2.28E-06	3.67E-06	5.58E-04	1.30E-04	0.00E+00
TEEN	2.85E-06	2.96E-05	6.05E-05	3.13E-06	5.06E-06	7.00E-04	2.07E-04	0.00E+00
CHILD	3.28E-06	1.22E-04	7.38E-05	3.06E-06	4.75E-06	8.08E-04	1.77E-04	0.00E+00
INFANT	1.96E-06	1.04E-04	3.59E-05	2.80E-06	3.13E-06	7.41E-04	1.41E-04	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 3 A Nearest Resident
AT .90 MILES NW

ANNUAL BETA AIR DOSE = 2.64E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 4.07E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.71E-02	2.71E-02	2.71E-02	2.71E-02	2.71E-02	2.71E-02	2.74E-02	5.15E-02
GROUND	1.72E-04	1.72E-04	1.72E-04	1.72E-04	1.72E-04	1.72E-04	1.72E-04	2.03E-04
VEGET								
ADULT	3.04E-05	1.02E-04	1.07E-03	6.47E-06	7.18E-06	1.28E-03	1.55E-07	0.00E+00
TEEN	4.48E-05	1.22E-04	1.58E-03	9.93E-06	1.09E-05	1.72E-03	2.91E-07	0.00E+00
CHILD	9.70E-05	9.37E-05	3.48E-03	1.65E-05	1.76E-05	3.29E-03	4.42E-07	0.00E+00
MEAT								
ADULT	1.09E-06	6.71E-06	1.21E-05	5.28E-07	2.18E-07	3.43E-05	1.27E-08	0.00E+00
TEEN	8.24E-07	3.69E-06	8.94E-06	4.17E-07	1.78E-07	2.49E-05	1.20E-08	0.00E+00
CHILD	1.28E-06	1.92E-06	1.51E-05	5.20E-07	2.26E-07	3.75E-05	1.41E-08	0.00E+00
COW MILK								
ADULT	3.57E-06	5.75E-06	5.13E-05	3.97E-06	5.39E-06	9.56E-04	1.07E-07	0.00E+00
TEEN	5.50E-06	7.61E-06	8.43E-05	7.03E-06	9.60E-06	1.51E-03	2.21E-07	0.00E+00
CHILD	1.04E-05	5.90E-06	1.89E-04	1.22E-05	1.60E-05	2.99E-03	3.40E-07	0.00E+00
INFANT	1.76E-05	5.81E-06	2.83E-04	2.84E-05	2.76E-05	7.28E-03	6.15E-07	0.00E+00
GOATMILK								
ADULT	6.26E-06	8.74E-06	1.07E-04	6.40E-06	7.04E-06	1.15E-03	3.21E-07	0.00E+00
TEEN	9.04E-06	1.19E-05	1.75E-04	1.13E-05	1.25E-05	1.82E-03	6.63E-07	0.00E+00
CHILD	1.64E-05	9.56E-06	3.92E-04	1.97E-05	2.09E-05	3.59E-03	1.02E-06	0.00E+00
INFANT	2.67E-05	9.61E-06	5.82E-04	4.39E-05	3.59E-05	8.73E-03	1.84E-06	0.00E+00
INHAL								
ADULT	4.98E-07	3.96E-06	1.06E-05	5.28E-07	8.19E-07	1.21E-04	2.77E-05	0.00E+00
TEEN	6.35E-07	6.66E-06	1.29E-05	7.25E-07	1.13E-06	1.51E-04	4.42E-05	0.00E+00
CHILD	7.32E-07	2.80E-05	1.57E-05	7.09E-07	1.06E-06	1.75E-04	3.79E-05	0.00E+00
INFANT	4.42E-07	2.39E-05	7.66E-06	6.49E-07	6.98E-07	1.60E-04	3.03E-05	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 4 A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 1.95E-03 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.94E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.28E-03	1.28E-03	1.28E-03	1.28E-03	1.28E-03	1.28E-03	1.30E-03	2.68E-03
GROUND	1.10E-05	1.10E-05	1.10E-05	1.10E-05	1.10E-05	1.10E-05	1.10E-05	1.29E-05
VEGET								
ADULT	2.08E-06	6.98E-06	7.10E-05	5.17E-07	5.29E-07	8.98E-05	1.88E-08	0.00E+00
TEEN	3.04E-06	8.37E-06	1.05E-04	7.97E-07	8.08E-07	1.21E-04	3.53E-08	0.00E+00
CHILD	6.55E-06	6.45E-06	2.33E-04	1.34E-06	1.30E-06	2.32E-04	5.37E-08	0.00E+00
MEAT								
ADULT	7.45E-08	4.31E-07	8.01E-07	4.06E-08	1.73E-08	2.42E-06	1.54E-09	0.00E+00
TEEN	5.49E-08	2.37E-07	5.96E-07	3.22E-08	1.41E-08	1.75E-06	1.45E-09	0.00E+00
CHILD	8.35E-08	1.24E-07	1.01E-06	4.06E-08	1.79E-08	2.64E-06	1.71E-09	0.00E+00
COW MILK								
ADULT	2.78E-07	3.95E-07	3.45E-06	3.27E-07	3.95E-07	6.73E-05	1.30E-08	0.00E+00
TEEN	4.09E-07	5.23E-07	5.69E-06	5.79E-07	7.05E-07	1.06E-04	2.68E-08	0.00E+00
CHILD	7.34E-07	4.07E-07	1.29E-05	1.01E-06	1.17E-06	2.11E-04	4.13E-08	0.00E+00
INFANT	1.24E-06	4.01E-07	1.95E-05	2.28E-06	2.02E-06	5.12E-04	7.46E-08	0.00E+00
GOATMILK								
ADULT	5.27E-07	6.08E-07	7.18E-06	5.95E-07	5.45E-07	8.07E-05	3.90E-08	0.00E+00
TEEN	7.13E-07	8.28E-07	1.18E-05	1.05E-06	9.70E-07	1.28E-04	8.05E-08	0.00E+00
CHILD	1.20E-06	6.65E-07	2.67E-05	1.83E-06	1.61E-06	2.53E-04	1.24E-07	0.00E+00
INFANT	1.92E-06	6.68E-07	4.03E-05	3.95E-06	2.76E-06	6.14E-04	2.24E-07	0.00E+00
INHAL								
ADULT	8.69E-08	7.64E-07	1.57E-06	1.02E-07	1.47E-07	2.07E-05	4.31E-06	0.00E+00
TEEN	1.10E-07	1.21E-06	1.93E-06	1.40E-07	2.03E-07	2.59E-05	6.91E-06	0.00E+00
CHILD	1.25E-07	4.35E-06	2.37E-06	1.37E-07	1.90E-07	2.99E-05	5.94E-06	0.00E+00
INFANT	7.73E-08	3.67E-06	1.18E-06	1.24E-07	1.25E-07	2.74E-05	4.83E-06	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 5 A Nearest Garden
AT 1.90 MILES NNW

ANNUAL BETA AIR DOSE = 5.21E-03 MILLRADS
ANNUAL GAMMA AIR DOSE = 4.21E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.75E-03	2.75E-03	2.75E-03	2.75E-03	2.75E-03	2.75E-03	2.80E-03	6.23E-03
GROUND	4.51E-05	4.51E-05	4.51E-05	4.51E-05	4.51E-05	4.51E-05	4.51E-05	5.31E-05
VEGET								
ADULT	8.08E-06	2.71E-05	2.83E-04	1.78E-06	1.93E-06	3.39E-04	4.88E-08	0.00E+00
TEEN	1.19E-05	3.24E-05	4.17E-04	2.73E-06	2.94E-06	4.56E-04	9.14E-08	0.00E+00
CHILD	2.57E-05	2.50E-05	9.22E-04	4.57E-06	4.74E-06	8.75E-04	1.39E-07	0.00E+00
MEAT								
ADULT	2.90E-07	1.76E-06	3.19E-06	1.44E-07	5.97E-08	9.12E-06	3.98E-09	0.00E+00
TEEN	2.18E-07	9.68E-07	2.36E-06	1.14E-07	4.87E-08	6.60E-06	3.76E-09	0.00E+00
CHILD	3.36E-07	5.05E-07	4.01E-06	1.43E-07	6.19E-08	9.97E-06	4.42E-09	0.00E+00
COW MILK								
ADULT	9.77E-07	1.53E-06	1.36E-05	1.10E-06	1.44E-06	2.54E-04	3.36E-08	0.00E+00
TEEN	1.49E-06	2.02E-06	2.24E-05	1.95E-06	2.57E-06	4.02E-04	6.95E-08	0.00E+00
CHILD	2.77E-06	1.57E-06	5.03E-05	3.38E-06	4.28E-06	7.94E-04	1.07E-07	0.00E+00
INFANT	4.68E-06	1.54E-06	7.55E-05	7.80E-06	7.40E-06	1.93E-03	1.93E-07	0.00E+00
GOATMILK								
ADULT	1.75E-06	2.33E-06	2.83E-05	1.84E-06	1.91E-06	3.04E-04	1.01E-07	0.00E+00
TEEN	2.48E-06	3.18E-06	4.64E-05	3.25E-06	3.41E-06	4.82E-04	2.08E-07	0.00E+00
CHILD	4.42E-06	2.55E-06	1.04E-04	5.65E-06	5.67E-06	9.53E-04	3.20E-07	0.00E+00
INFANT	7.16E-06	2.56E-06	1.55E-04	1.25E-05	9.74E-06	2.32E-03	5.79E-07	0.00E+00
INHAL								
ADULT	2.68E-07	1.97E-06	5.17E-06	3.01E-07	4.32E-07	6.03E-05	1.32E-05	0.00E+00
TEEN	3.42E-07	2.64E-06	6.30E-06	4.14E-07	5.95E-07	7.55E-05	2.11E-05	0.00E+00
CHILD	3.95E-07	6.68E-06	7.70E-06	4.05E-07	5.59E-07	8.70E-05	1.80E-05	0.00E+00
INFANT	2.43E-07	5.49E-06	3.79E-06	3.70E-07	3.68E-07	7.97E-05	1.43E-05	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2002

SPECIAL LOCATION NO. 1 A Site Boundary
AT .69 MILES NNW

ANNUAL BETA AIR DOSE = 1.93E-01 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.96E-01 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.97E-01	1.97E-01	1.97E-01	1.97E-01	1.97E-01	1.97E-01	1.99E-01	3.74E-01
GROUND	2.51E-03	2.51E-03	2.51E-03	2.51E-03	2.51E-03	2.51E-03	2.51E-03	2.95E-03
VEGET								
ADULT	2.46E-04	9.91E-04	6.73E-03	9.15E-05	6.61E-05	9.66E-03	4.86E-06	0.00E+00
TEEN	3.58E-04	1.17E-03	1.02E-02	1.42E-04	1.01E-04	1.30E-02	9.11E-06	0.00E+00
CHILD	7.57E-04	8.78E-04	2.32E-02	2.38E-04	1.64E-04	2.49E-02	1.39E-05	0.00E+00
MEAT								
ADULT	1.44E-05	9.21E-05	7.59E-05	8.80E-06	2.56E-06	2.60E-04	3.97E-07	0.00E+00
TEEN	1.05E-05	5.02E-05	5.80E-05	6.97E-06	2.08E-06	1.88E-04	3.75E-07	0.00E+00
CHILD	1.56E-05	2.59E-05	1.01E-04	8.76E-06	2.64E-06	2.84E-04	4.41E-07	0.00E+00
COW MILK								
ADULT	4.18E-05	5.57E-05	3.43E-04	5.32E-05	4.86E-05	7.25E-03	3.35E-06	0.00E+00
TEEN	5.60E-05	7.25E-05	5.82E-04	9.40E-05	8.66E-05	1.15E-02	6.93E-06	0.00E+00
CHILD	9.01E-05	5.51E-05	1.35E-03	1.63E-04	1.44E-04	2.27E-02	1.06E-05	0.00E+00
INFANT	1.49E-04	5.36E-05	2.17E-03	3.53E-04	2.46E-04	5.52E-02	1.93E-05	0.00E+00
GOATMILK								
ADULT	8.96E-05	7.23E-05	7.24E-04	1.16E-04	7.65E-05	8.70E-03	1.01E-05	0.00E+00
TEEN	1.07E-04	9.83E-05	1.23E-03	2.05E-04	1.36E-04	1.38E-02	2.08E-05	0.00E+00
CHILD	1.51E-04	7.87E-05	2.84E-03	3.56E-04	2.26E-04	2.73E-02	3.19E-05	0.00E+00
INFANT	2.32E-04	7.90E-05	4.56E-03	7.37E-04	3.81E-04	6.63E-02	5.78E-05	0.00E+00
INHAL								
ADULT	3.23E-06	2.36E-05	4.40E-05	4.26E-06	5.92E-06	8.30E-04	2.33E-04	0.00E+00
TEEN	3.98E-06	4.06E-05	5.39E-05	5.84E-06	8.17E-06	1.05E-03	3.57E-04	0.00E+00
CHILD	4.37E-06	1.84E-04	6.62E-05	5.68E-06	7.66E-06	1.22E-03	2.99E-04	0.00E+00
INFANT	2.68E-06	1.57E-04	3.31E-05	5.02E-06	5.04E-06	1.12E-03	2.19E-04	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 2 A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 2.41E-01 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.70E-01 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.46E-01	2.49E-01	4.68E-01
GROUND	3.98E-03	3.98E-03	3.98E-03	3.98E-03	3.98E-03	3.98E-03	3.98E-03	4.68E-03
VEGET								
ADULT	3.92E-04	1.58E-03	1.07E-02	1.46E-04	1.05E-04	1.53E-02	7.77E-06	0.00E+00
TEEN	5.71E-04	1.86E-03	1.63E-02	2.27E-04	1.61E-04	2.07E-02	1.46E-05	0.00E+00
CHILD	1.21E-03	1.40E-03	3.70E-02	3.79E-04	2.61E-04	3.96E-02	2.22E-05	0.00E+00
MEAT								
ADULT	2.28E-05	1.46E-04	1.21E-04	1.40E-05	4.08E-06	4.12E-04	6.34E-07	0.00E+00
TEEN	1.67E-05	7.97E-05	9.25E-05	1.11E-05	3.32E-06	2.99E-04	6.00E-07	0.00E+00
CHILD	2.48E-05	4.11E-05	1.61E-04	1.39E-05	4.21E-06	4.51E-04	7.05E-07	0.00E+00
COW MILK								
ADULT	6.67E-05	8.88E-05	5.47E-04	8.48E-05	7.74E-05	1.15E-02	5.36E-06	0.00E+00
TEEN	8.92E-05	1.16E-04	9.28E-04	1.50E-04	1.38E-04	1.82E-02	1.11E-05	0.00E+00
CHILD	1.43E-04	8.79E-05	2.15E-03	2.60E-04	2.29E-04	3.61E-02	1.70E-05	0.00E+00
INFANT	2.37E-04	8.55E-05	3.47E-03	5.62E-04	3.92E-04	8.77E-02	3.08E-05	0.00E+00
GOATMILK								
ADULT	1.43E-04	1.16E-04	1.16E-03	1.85E-04	1.22E-04	1.38E-02	1.61E-05	0.00E+00
TEEN	1.71E-04	1.57E-04	1.96E-03	3.28E-04	2.17E-04	2.19E-02	3.32E-05	0.00E+00
CHILD	2.40E-04	1.26E-04	4.54E-03	5.69E-04	3.60E-04	4.33E-02	5.11E-05	0.00E+00
INFANT	3.70E-04	1.26E-04	7.29E-03	1.18E-03	6.07E-04	1.05E-01	9.24E-05	0.00E+00
INHAL								
ADULT	4.13E-06	3.04E-05	5.66E-05	5.42E-06	7.51E-06	1.05E-03	3.00E-04	0.00E+00
TEEN	5.09E-06	5.22E-05	6.93E-05	7.43E-06	1.04E-05	1.32E-03	4.60E-04	0.00E+00
CHILD	5.59E-06	2.36E-04	8.50E-05	7.23E-06	9.72E-06	1.54E-03	3.84E-04	0.00E+00
INFANT	3.43E-06	2.03E-04	4.25E-05	6.38E-06	6.39E-06	1.41E-03	2.82E-04	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 3 A Nearest Resident
AT .90 MILES NW

ANNUAL BETA AIR DOSE = 6.19E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 9.34E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.22E-02	6.22E-02	6.22E-02	6.22E-02	6.22E-02	6.22E-02	6.28E-02	1.19E-01
GROUND	1.26E-03	1.26E-03	1.26E-03	1.26E-03	1.26E-03	1.26E-03	1.26E-03	1.48E-03
VEGET								
ADULT	1.76E-04	7.56E-04	4.87E-03	6.20E-05	4.22E-05	5.67E-03	4.00E-06	0.00E+00
TEEN	2.59E-04	9.03E-04	7.59E-03	9.69E-05	6.50E-05	7.64E-03	7.49E-06	0.00E+00
CHILD	5.58E-04	6.93E-04	1.76E-02	1.63E-04	1.05E-04	1.46E-02	1.14E-05	0.00E+00
MEAT								
ADULT	8.32E-06	4.88E-05	5.39E-05	5.55E-06	1.78E-06	1.53E-04	3.26E-07	0.00E+00
TEEN	5.91E-06	2.69E-05	4.24E-05	4.42E-06	1.45E-06	1.10E-04	3.08E-07	0.00E+00
CHILD	8.61E-06	1.41E-05	7.56E-05	5.62E-06	1.84E-06	1.67E-04	3.62E-07	0.00E+00
COW MILK								
ADULT	3.03E-05	4.03E-05	2.49E-04	3.81E-05	3.09E-05	4.26E-03	2.75E-06	0.00E+00
TEEN	3.93E-05	5.33E-05	4.33E-04	6.73E-05	5.50E-05	6.74E-03	5.69E-06	0.00E+00
CHILD	6.16E-05	4.13E-05	1.02E-03	1.17E-04	9.14E-05	1.33E-02	8.74E-06	0.00E+00
INFANT	1.02E-04	4.06E-05	1.74E-03	2.48E-04	1.56E-04	3.24E-02	1.58E-05	0.00E+00
GOATMILK								
ADULT	6.90E-05	6.00E-05	5.30E-04	8.90E-05	5.20E-05	5.11E-03	8.25E-06	0.00E+00
TEEN	8.10E-05	8.17E-05	9.21E-04	1.57E-04	9.23E-05	8.09E-03	1.71E-05	0.00E+00
CHILD	1.11E-04	6.55E-05	2.17E-03	2.73E-04	1.53E-04	1.60E-02	2.62E-05	0.00E+00
INFANT	1.71E-04	6.59E-05	3.67E-03	5.57E-04	2.57E-04	3.89E-02	4.74E-05	0.00E+00
INHAL								
ADULT	1.24E-06	1.08E-05	1.57E-05	1.65E-06	2.11E-06	2.73E-04	8.41E-05	0.00E+00
TEEN	1.53E-06	1.81E-05	1.97E-05	2.26E-06	2.91E-06	3.43E-04	1.31E-04	0.00E+00
CHILD	1.71E-06	7.62E-05	2.45E-05	2.20E-06	2.73E-06	4.00E-04	1.11E-04	0.00E+00
INFANT	1.07E-06	6.51E-05	1.29E-05	1.95E-06	1.80E-06	3.67E-04	8.50E-05	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 4 A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 4.49E-03 MILLRADS
ANNUAL GAMMA AIR DOSE = 4.20E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.78E-03	2.78E-03	2.78E-03	2.78E-03	2.78E-03	2.78E-03	2.83E-03	6.47E-03
GROUND	4.96E-05	4.96E-05	4.96E-05	4.96E-05	4.96E-05	4.96E-05	4.96E-05	5.83E-05
VEGET								
ADULT	9.47E-06	4.22E-05	2.64E-04	3.21E-06	2.09E-06	2.63E-04	2.32E-07	0.00E+00
TEEN	1.40E-05	5.08E-05	4.17E-04	5.04E-06	3.23E-06	3.54E-04	4.35E-07	0.00E+00
CHILD	3.05E-05	3.94E-05	9.82E-04	8.51E-06	5.23E-06	6.78E-04	6.61E-07	0.00E+00
MEAT								
ADULT	3.82E-07	2.05E-06	2.88E-06	2.74E-07	9.39E-08	7.07E-06	1.89E-08	0.00E+00
TEEN	2.63E-07	1.14E-06	2.30E-06	2.18E-07	7.63E-08	5.12E-06	1.79E-08	0.00E+00
CHILD	3.77E-07	6.09E-07	4.17E-06	2.80E-07	9.69E-08	7.73E-06	2.10E-08	0.00E+00
COW MILK								
ADULT	1.63E-06	2.18E-06	1.35E-05	2.04E-06	1.53E-06	1.97E-04	1.60E-07	0.00E+00
TEEN	2.08E-06	2.91E-06	2.38E-05	3.61E-06	2.72E-06	3.12E-04	3.30E-07	0.00E+00
CHILD	3.21E-06	2.28E-06	5.69E-05	6.26E-06	4.51E-06	6.18E-04	5.07E-07	0.00E+00
INFANT	5.30E-06	2.25E-06	9.94E-05	1.32E-05	7.67E-06	1.50E-03	9.17E-07	0.00E+00
GOATMILK								
ADULT	3.86E-06	3.49E-06	2.88E-05	4.98E-06	2.70E-06	2.37E-04	4.79E-07	0.00E+00
TEEN	4.49E-06	4.76E-06	5.08E-05	8.78E-06	4.79E-06	3.75E-04	9.89E-07	0.00E+00
CHILD	6.05E-06	3.82E-06	1.21E-04	1.52E-05	7.95E-06	7.41E-04	1.52E-06	0.00E+00
INFANT	9.33E-06	3.85E-06	2.11E-04	3.09E-05	1.33E-05	1.80E-03	2.75E-06	0.00E+00
INHAL								
ADULT	2.36E-07	2.64E-06	2.56E-06	3.22E-07	3.50E-07	3.65E-05	1.38E-05	0.00E+00
TEEN	2.96E-07	4.07E-06	3.35E-06	4.42E-07	4.83E-07	4.59E-05	2.22E-05	0.00E+00
CHILD	3.37E-07	1.39E-05	4.34E-06	4.32E-07	4.53E-07	5.33E-05	1.91E-05	0.00E+00
INFANT	2.22E-07	1.17E-05	2.54E-06	3.86E-07	2.98E-07	4.89E-05	1.61E-05	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 5 A Nearest Garden
AT 1.90 MILES NNW

ANNUAL BETA AIR DOSE = 2.24E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.33E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.22E-02	2.22E-02	2.22E-02	2.22E-02	2.22E-02	2.22E-02	2.24E-02	4.30E-02
GROUND	2.14E-04	2.14E-04	2.14E-04	2.14E-04	2.14E-04	2.14E-04	2.14E-04	2.52E-04
VEGET								
ADULT	3.26E-05	1.41E-04	9.03E-04	1.13E-05	7.63E-06	1.01E-03	7.57E-07	0.00E+00
TEEN	4.80E-05	1.69E-04	1.41E-03	1.77E-05	1.18E-05	1.36E-03	1.42E-06	0.00E+00
CHILD	1.04E-04	1.30E-04	3.30E-03	2.99E-05	1.90E-05	2.60E-03	2.16E-06	0.00E+00
MEAT								
ADULT	1.47E-06	8.43E-06	9.96E-06	1.00E-06	3.28E-07	2.71E-05	6.17E-08	0.00E+00
TEEN	1.04E-06	4.66E-06	7.86E-06	7.98E-07	2.66E-07	1.96E-05	5.84E-08	0.00E+00
CHILD	1.50E-06	2.45E-06	1.41E-05	1.02E-06	3.38E-07	2.96E-05	6.86E-08	0.00E+00
COW MILK								
ADULT	5.61E-06	7.47E-06	4.63E-05	7.04E-06	5.58E-06	7.56E-04	5.21E-07	0.00E+00
TEEN	7.25E-06	9.90E-06	8.07E-05	1.24E-05	9.94E-06	1.20E-03	1.08E-06	0.00E+00
CHILD	1.13E-05	7.69E-06	1.91E-04	2.16E-05	1.65E-05	2.37E-03	1.65E-06	0.00E+00
INFANT	1.87E-05	7.59E-06	3.28E-04	4.57E-05	2.81E-05	5.76E-03	2.99E-06	0.00E+00
GOATMILK								
ADULT	1.29E-05	1.14E-05	9.84E-05	1.67E-05	9.52E-06	9.07E-04	1.56E-06	0.00E+00
TEEN	1.51E-05	1.55E-05	1.72E-04	2.94E-05	1.69E-05	1.44E-03	3.23E-06	0.00E+00
CHILD	2.06E-05	1.24E-05	4.07E-04	5.11E-05	2.81E-05	2.84E-03	4.96E-06	0.00E+00
INFANT	3.18E-05	1.25E-05	6.92E-04	1.04E-04	4.70E-05	6.91E-03	8.98E-06	0.00E+00
INHAL								
ADULT	5.02E-07	4.89E-06	5.99E-06	6.79E-07	8.20E-07	9.84E-05	3.23E-05	0.00E+00
TEEN	6.26E-07	8.10E-06	7.61E-06	9.32E-07	1.13E-06	1.24E-04	5.08E-05	0.00E+00
CHILD	7.04E-07	3.24E-05	9.63E-06	9.09E-07	1.06E-06	1.44E-04	4.32E-05	0.00E+00
INFANT	4.51E-07	2.77E-05	5.30E-06	8.09E-07	6.98E-07	1.32E-04	3.45E-05	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2002

SPECIAL LOCATION NO. 1 A Site Boundary
AT .69 MILES NNW

ANNUAL BETA AIR DOSE = 3.70E-01 MILLRADS
ANNUAL GAMMA AIR DOSE = 5.65E-01 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.76E-01	3.76E-01	3.76E-01	3.76E-01	3.76E-01	3.76E-01	3.80E-01	7.17E-01
GROUND	4.84E-03	4.84E-03	4.84E-03	4.84E-03	4.84E-03	4.84E-03	4.84E-03	5.69E-03
VEGET								
ADULT	4.37E-04	1.91E-03	1.07E-02	1.87E-04	1.20E-04	1.58E-02	1.17E-05	0.00E+00
TEEN	6.33E-04	2.25E-03	1.66E-02	2.93E-04	1.84E-04	2.13E-02	2.18E-05	0.00E+00
CHILD	1.33E-03	1.69E-03	3.84E-02	4.91E-04	2.98E-04	4.08E-02	3.32E-05	0.00E+00
MEAT								
ADULT	2.79E-05	1.85E-04	1.20E-04	1.83E-05	5.36E-06	4.25E-04	9.50E-07	0.00E+00
TEEN	2.01E-05	1.02E-04	9.43E-05	1.45E-05	4.37E-06	3.08E-04	8.99E-07	0.00E+00
CHILD	2.93E-05	5.31E-05	1.68E-04	1.83E-05	5.55E-06	4.65E-04	1.06E-06	0.00E+00
COW MILK								
ADULT	8.40E-05	1.05E-04	5.64E-04	1.10E-04	8.71E-05	1.19E-02	8.03E-06	0.00E+00
TEEN	1.07E-04	1.36E-04	9.79E-04	1.94E-04	1.55E-04	1.88E-02	1.66E-05	0.00E+00
CHILD	1.62E-04	1.03E-04	2.30E-03	3.36E-04	2.58E-04	3.71E-02	2.55E-05	0.00E+00
INFANT	2.64E-04	1.00E-04	3.89E-03	7.13E-04	4.39E-04	9.02E-02	4.61E-05	0.00E+00
GOATMILK								
ADULT	1.91E-04	1.34E-04	1.20E-03	2.58E-04	1.48E-04	1.42E-02	2.41E-05	0.00E+00
TEEN	2.19E-04	1.82E-04	2.09E-03	4.55E-04	2.63E-04	2.25E-02	4.98E-05	0.00E+00
CHILD	2.82E-04	1.45E-04	4.92E-03	7.89E-04	4.36E-04	4.46E-02	7.65E-05	0.00E+00
INFANT	4.25E-04	1.46E-04	8.25E-03	1.61E-03	7.31E-04	1.08E-01	1.38E-04	0.00E+00
INHAL								
ADULT	4.55E-06	3.47E-05	4.77E-05	6.51E-06	7.54E-06	9.08E-04	3.63E-04	0.00E+00
TEEN	5.65E-06	5.96E-05	5.92E-05	8.93E-06	1.04E-05	1.14E-03	5.52E-04	0.00E+00
CHILD	6.27E-06	2.67E-04	7.36E-05	8.69E-06	9.76E-06	1.33E-03	4.59E-04	0.00E+00
INFANT	3.92E-06	2.30E-04	3.81E-05	7.50E-06	6.37E-06	1.22E-03	3.31E-04	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 2 A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 4.84E-01 MILLRADS
ANNUAL GAMMA AIR DOSE = 7.39E-01 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.91E-01	4.91E-01	4.91E-01	4.91E-01	4.91E-01	4.91E-01	4.96E-01	9.38E-01
GROUND	7.83E-03	7.83E-03	7.83E-03	7.83E-03	7.83E-03	7.83E-03	7.83E-03	9.21E-03
VEGET								
ADULT	7.21E-04	3.16E-03	1.77E-02	3.09E-04	1.97E-04	2.59E-02	1.93E-05	0.00E+00
TEEN	1.04E-03	3.72E-03	2.75E-02	4.82E-04	3.03E-04	3.49E-02	3.62E-05	0.00E+00
CHILD	2.20E-03	2.80E-03	6.36E-02	8.08E-04	4.91E-04	6.69E-02	5.51E-05	0.00E+00
MEAT								
ADULT	4.55E-05	3.01E-04	1.99E-04	2.99E-05	8.87E-06	6.97E-04	1.58E-06	0.00E+00
TEEN	3.27E-05	1.65E-04	1.56E-04	2.37E-05	7.22E-06	5.05E-04	1.49E-06	0.00E+00
CHILD	4.77E-05	8.64E-05	2.78E-04	3.00E-05	9.18E-06	7.62E-04	1.75E-06	0.00E+00
COW MILK								
ADULT	1.39E-04	1.72E-04	9.32E-04	1.81E-04	1.43E-04	1.94E-02	1.33E-05	0.00E+00
TEEN	1.77E-04	2.24E-04	1.62E-03	3.20E-04	2.55E-04	3.08E-02	2.75E-05	0.00E+00
CHILD	2.67E-04	1.71E-04	3.82E-03	5.55E-04	4.24E-04	6.09E-02	4.23E-05	0.00E+00
INFANT	4.36E-04	1.66E-04	6.46E-03	1.18E-03	7.22E-04	1.48E-01	7.66E-05	0.00E+00
GOATMILK								
ADULT	3.17E-04	2.23E-04	1.99E-03	4.27E-04	2.44E-04	2.33E-02	4.00E-05	0.00E+00
TEEN	3.62E-04	3.02E-04	3.46E-03	7.54E-04	4.33E-04	3.69E-02	8.26E-05	0.00E+00
CHILD	4.67E-04	2.42E-04	8.16E-03	1.31E-03	7.20E-04	7.31E-02	1.27E-04	0.00E+00
INFANT	7.03E-04	2.43E-04	1.37E-02	2.66E-03	1.21E-03	1.78E-01	2.30E-04	0.00E+00
INHAL								
ADULT	5.80E-06	4.38E-05	5.99E-05	8.35E-06	9.69E-06	1.16E-03	4.55E-04	0.00E+00
TEEN	7.21E-06	7.51E-05	7.44E-05	1.15E-05	1.34E-05	1.46E-03	6.92E-04	0.00E+00
CHILD	8.00E-06	3.36E-04	9.25E-05	1.11E-05	1.25E-05	1.70E-03	5.76E-04	0.00E+00
INFANT	5.01E-06	2.90E-04	4.80E-05	9.64E-06	8.18E-06	1.56E-03	4.15E-04	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 3 A Nearest Resident
AT .90 MILES NW

ANNUAL BETA AIR DOSE = 1.16E-01 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.69E-01 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.13E-01	1.13E-01	1.13E-01	1.13E-01	1.13E-01	1.13E-01	1.14E-01	2.21E-01
GROUND	1.84E-03	1.84E-03	1.84E-03	1.84E-03	1.84E-03	1.84E-03	1.84E-03	2.17E-03
VEGET								
ADULT	2.60E-04	1.16E-03	6.58E-03	1.08E-04	6.81E-05	8.40E-03	7.79E-06	0.00E+00
TEEN	3.79E-04	1.39E-03	1.04E-02	1.69E-04	1.05E-04	1.13E-02	1.46E-05	0.00E+00
CHILD	8.09E-04	1.07E-03	2.46E-02	2.85E-04	1.71E-04	2.17E-02	2.22E-05	0.00E+00
MEAT								
ADULT	1.28E-05	7.87E-05	7.31E-05	9.43E-06	3.33E-06	2.26E-04	6.35E-07	0.00E+00
TEEN	8.82E-06	4.41E-05	5.86E-05	7.52E-06	2.71E-06	1.64E-04	6.01E-07	0.00E+00
CHILD	1.25E-05	2.36E-05	1.06E-04	9.64E-06	3.45E-06	2.47E-04	7.06E-07	0.00E+00
COW MILK								
ADULT	5.17E-05	6.10E-05	3.49E-04	6.77E-05	4.96E-05	6.30E-03	5.36E-06	0.00E+00
TEEN	6.45E-05	8.07E-05	6.17E-04	1.20E-04	8.82E-05	9.97E-03	1.11E-05	0.00E+00
CHILD	9.51E-05	6.27E-05	1.48E-03	2.07E-04	1.46E-04	1.97E-02	1.70E-05	0.00E+00
INFANT	1.55E-04	6.17E-05	2.59E-03	4.35E-04	2.49E-04	4.80E-02	3.08E-05	0.00E+00
GOATMILK								
ADULT	1.23E-04	9.10E-05	7.48E-04	1.66E-04	8.85E-05	7.56E-03	1.61E-05	0.00E+00
TEEN	1.40E-04	1.24E-04	1.32E-03	2.93E-04	1.57E-04	1.20E-02	3.32E-05	0.00E+00
CHILD	1.77E-04	9.93E-05	3.17E-03	5.08E-04	2.61E-04	2.37E-02	5.11E-05	0.00E+00
INFANT	2.67E-04	9.98E-05	5.51E-03	1.03E-03	4.35E-04	5.75E-02	9.24E-05	0.00E+00
INHAL								
ADULT	2.54E-06	1.63E-05	1.70E-05	4.12E-06	3.98E-06	2.90E-04	1.16E-04	0.00E+00
TEEN	3.28E-06	2.82E-05	2.18E-05	5.67E-06	5.48E-06	3.64E-04	1.80E-04	0.00E+00
CHILD	3.82E-06	1.19E-04	2.78E-05	5.55E-06	5.15E-06	4.23E-04	1.51E-04	0.00E+00
INFANT	2.57E-06	1.04E-04	1.58E-05	4.96E-06	3.37E-06	3.88E-04	1.16E-04	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 4 A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 2.30E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.92E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.95E-02	1.95E-02	1.95E-02	1.95E-02	1.95E-02	1.95E-02	1.97E-02	4.19E-02
GROUND	1.03E-04	1.03E-04	1.03E-04	1.03E-04	1.03E-04	1.03E-04	1.03E-04	1.21E-04
VEGET								
ADULT	2.17E-05	9.84E-05	5.60E-04	8.80E-06	5.53E-06	6.51E-04	6.92E-07	0.00E+00
TEEN	3.17E-05	1.19E-04	8.99E-04	1.38E-05	8.57E-06	8.78E-04	1.30E-06	0.00E+00
CHILD	6.83E-05	9.25E-05	2.14E-03	2.35E-05	1.39E-05	1.68E-03	1.97E-06	0.00E+00
MEAT								
ADULT	8.80E-07	5.03E-06	6.17E-06	7.17E-07	2.85E-07	1.75E-05	5.64E-08	0.00E+00
TEEN	5.82E-07	2.88E-06	5.01E-06	5.74E-07	2.32E-07	1.27E-05	5.34E-08	0.00E+00
CHILD	8.00E-07	1.58E-06	9.19E-06	7.43E-07	2.96E-07	1.92E-05	6.27E-08	0.00E+00
COW MILK								
ADULT	4.40E-06	5.03E-06	2.98E-05	5.77E-06	4.03E-06	4.89E-04	4.76E-07	0.00E+00
TEEN	5.42E-06	6.73E-06	5.32E-05	1.02E-05	7.16E-06	7.74E-04	9.84E-07	0.00E+00
CHILD	7.87E-06	5.29E-06	1.28E-04	1.77E-05	1.19E-05	1.53E-03	1.51E-06	0.00E+00
INFANT	1.28E-05	5.25E-06	2.30E-04	3.68E-05	2.01E-05	3.72E-03	2.74E-06	0.00E+00
GOATMILK								
ADULT	1.08E-05	8.15E-06	6.40E-05	1.45E-05	7.41E-06	5.86E-04	1.43E-06	0.00E+00
TEEN	1.21E-05	1.11E-05	1.14E-04	2.56E-05	1.31E-05	9.28E-04	2.95E-06	0.00E+00
CHILD	1.52E-05	8.91E-06	2.76E-04	4.43E-05	2.18E-05	1.84E-03	4.54E-06	0.00E+00
INFANT	2.30E-05	8.97E-06	4.89E-04	8.93E-05	3.63E-05	4.46E-03	8.21E-06	0.00E+00
INHAL								
ADULT	1.18E-06	6.71E-06	4.96E-06	2.06E-06	1.76E-06	6.45E-05	2.73E-05	0.00E+00
TEEN	1.56E-06	1.17E-05	6.71E-06	2.84E-06	2.43E-06	8.12E-05	4.43E-05	0.00E+00
CHILD	1.88E-06	4.65E-05	8.92E-06	2.79E-06	2.28E-06	9.42E-05	3.84E-05	0.00E+00
INFANT	1.31E-06	4.09E-05	5.73E-06	2.54E-06	1.50E-06	8.63E-05	3.33E-05	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2002 (CONTINUED)

SPECIAL LOCATION NO. 5 A Nearest Garden
AT 1.90 MILES NNW

ANNUAL BETA AIR DOSE = 5.37E-02 MILLRADS
ANNUAL GAMMA AIR DOSE = 7.41E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.93E-02	4.93E-02	4.93E-02	4.93E-02	4.93E-02	4.93E-02	4.99E-02	1.00E-01
GROUND	4.26E-04	4.26E-04	4.26E-04	4.26E-04	4.26E-04	4.26E-04	4.26E-04	5.00E-04
VEGET								
ADULT	7.05E-05	3.18E-04	1.80E-03	2.89E-05	1.83E-05	2.21E-03	2.17E-06	0.00E+00
TEEN	1.03E-04	3.82E-04	2.87E-03	4.55E-05	2.82E-05	2.97E-03	4.07E-06	0.00E+00
CHILD	2.21E-04	2.95E-04	6.81E-03	7.69E-05	4.58E-05	5.70E-03	6.20E-06	0.00E+00
MEAT								
ADULT	3.20E-06	1.91E-05	1.99E-05	2.46E-06	9.15E-07	5.93E-05	1.77E-07	0.00E+00
TEEN	2.17E-06	1.08E-05	1.61E-05	1.96E-06	7.45E-07	4.30E-05	1.68E-07	0.00E+00
CHILD	3.04E-06	5.84E-06	2.93E-05	2.53E-06	9.48E-07	6.49E-05	1.97E-07	0.00E+00
COW MILK								
ADULT	1.42E-05	1.65E-05	9.56E-05	1.85E-05	1.33E-05	1.66E-03	1.50E-06	0.00E+00
TEEN	1.75E-05	2.19E-05	1.70E-04	3.28E-05	2.36E-05	2.62E-03	3.09E-06	0.00E+00
CHILD	2.57E-05	1.71E-05	4.08E-04	5.68E-05	3.93E-05	5.18E-03	4.75E-06	0.00E+00
INFANT	4.19E-05	1.69E-05	7.22E-04	1.19E-04	6.66E-05	1.26E-02	8.60E-06	0.00E+00
GOATMILK								
ADULT	3.42E-05	2.55E-05	2.05E-04	4.59E-05	2.40E-05	1.99E-03	4.49E-06	0.00E+00
TEEN	3.85E-05	3.47E-05	3.65E-04	8.11E-05	4.27E-05	3.14E-03	9.28E-06	0.00E+00
CHILD	4.87E-05	2.78E-05	8.76E-04	1.41E-04	7.09E-05	6.22E-03	1.43E-05	0.00E+00
INFANT	7.34E-05	2.80E-05	1.54E-03	2.84E-04	1.18E-04	1.51E-02	2.58E-05	0.00E+00
INHAL								
ADULT	1.84E-06	1.10E-05	9.52E-06	3.13E-06	2.79E-06	1.42E-04	5.87E-05	0.00E+00
TEEN	2.41E-06	1.91E-05	1.26E-05	4.30E-06	3.85E-06	1.79E-04	9.30E-05	0.00E+00
CHILD	2.87E-06	7.80E-05	1.63E-05	4.22E-06	3.62E-06	2.07E-04	7.93E-05	0.00E+00
INFANT	1.97E-06	6.83E-05	9.93E-06	3.81E-06	2.37E-06	1.90E-04	6.47E-05	0.00E+00

TABLE 8. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-MARCH 2002

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.21E-03	3.21E-03	3.21E-03	3.21E-03	3.21E-03	3.21E-03	3.30E-03	8.64E-03
	98.15%	97.64%	94.53%	98.13%	98.24%	80.56%	98.01%	99.31%
GROUND	5.10E-05	5.10E-05	5.10E-05	5.10E-05	5.10E-05	5.10E-05	5.10E-05	6.00E-05
	1.56%	1.55%	1.50%	1.56%	1.56%	1.28%	1.52%	.69%
INHAL	3.55E-07	4.80E-06	1.63E-06	6.19E-07	6.44E-07	5.64E-05	1.51E-05	0.00E+00
	.01%	.15%	.05%	.02%	.02%	1.42%	.45%	.00%
VEGET	5.35E-06	1.59E-05	1.11E-04	3.43E-06	9.94E-07	8.77E-06	3.22E-07	0.00E+00
	.16%	.49%	3.28%	.11%	.03%	.22%	.01%	.00%
COW MILK	3.08E-06	2.65E-06	1.99E-05	5.63E-06	4.55E-06	6.44E-04	4.20E-07	0.00E+00
	.09%	.08%	.59%	.17%	.14%	16.17%	.01%	.00%
MEAT	5.83E-07	3.06E-06	1.94E-06	4.32E-07	1.49E-07	1.41E-05	2.53E-08	0.00E+00
	.02%	.09%	.06%	.01%	.00%	.35%	.00%	.00%
TOTAL	3.27E-03	3.28E-03	3.39E-03	3.27E-03	3.26E-03	3.98E-03	3.37E-03	8.70E-03

TABLE 9. DOSES TO POPULATION WITHIN 50 MILES, APRIL-JUNE 2002

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.87E-03	3.87E-03	3.87E-03	3.87E-03	3.87E-03	3.87E-03	3.96E-03	9.90E-03
	95.41%	93.02%	71.99%	95.42%	96.22%	58.90%	95.41%	98.62%
GROUND	1.18E-04	1.18E-04	1.18E-04	1.18E-04	1.18E-04	1.18E-04	1.18E-04	1.39E-04
	2.91%	2.84%	2.20%	2.91%	2.94%	1.80%	2.85%	1.38%
INHAL	1.41E-06	2.46E-05	1.17E-05	2.28E-06	2.12E-06	1.62E-04	6.54E-05	0.00E+00
	.03%	.59%	.22%	.06%	.05%	2.47%	1.58%	.00%
VEGET	4.28E-05	1.16E-04	1.14E-03	2.44E-05	8.03E-06	3.16E-05	2.73E-06	0.00E+00
	1.06%	2.79%	21.24%	.60%	.20%	.48%	.07%	.00%
COW MILK	2.14E-05	1.96E-05	2.14E-04	3.87E-05	2.27E-05	2.34E-03	3.69E-06	0.00E+00
	.53%	.47%	3.98%	.95%	.56%	35.58%	.09%	.00%
MEAT	2.22E-06	1.18E-05	2.06E-05	2.30E-06	1.07E-06	5.11E-05	2.19E-07	0.00E+00
	.05%	.28%	.38%	.06%	.03%	.78%	.01%	.00%
TOTAL	4.06E-03	4.16E-03	5.38E-03	4.06E-03	4.03E-03	6.58E-03	4.15E-03	1.00E-02

TABLE 10. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-JUNE 2002

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.72E-03	6.72E-03	6.72E-03	6.72E-03	6.72E-03	6.72E-03	6.89E-03	1.76E-02
	96.55%	94.91%	80.22%	96.54%	97.05%	66.26%	96.43%	98.91%
GROUND	1.65E-04	1.65E-04	1.65E-04	1.65E-04	1.65E-04	1.65E-04	1.65E-04	1.93E-04
	2.37%	2.33%	1.97%	2.37%	2.38%	1.62%	2.31%	1.09%
INHAL	1.72E-06	2.93E-05	1.38E-05	2.81E-06	2.71E-06	2.25E-04	8.30E-05	0.00E+00
	.02%	.41%	.16%	.04%	.04%	2.22%	1.16%	.00%
VEGET	4.74E-05	1.30E-04	1.23E-03	2.74E-05	8.87E-06	3.98E-05	3.00E-06	0.00E+00
	.68%	1.84%	14.67%	.39%	.13%	.39%	.04%	.00%
COW MILK	2.39E-05	2.17E-05	2.28E-04	4.33E-05	2.67E-05	2.93E-03	4.01E-06	0.00E+00
	.34%	.31%	2.72%	.62%	.38%	28.88%	.06%	.00%
MEAT	2.76E-06	1.47E-05	2.20E-05	2.68E-06	1.19E-06	6.42E-05	2.39E-07	0.00E+00
	.04%	.21%	.26%	.04%	.02%	.63%	.00%	.00%
TOTAL	6.97E-03	7.09E-03	8.38E-03	6.97E-03	6.93E-03	1.01E-02	7.15E-03	1.78E-02

TABLE 11. DOSES TO POPULATION WITHIN 50 MILES, JULY-SEPTEMBER 2002

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.03E-03	2.03E-03	2.03E-03	2.03E-03	2.03E-03	2.03E-03	2.09E-03	5.47E-03
	92.76%	89.66%	65.54%	93.18%	93.92%	61.93%	92.04%	97.57%
GROUND	1.16E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04	1.36E-04
	5.31%	5.13%	3.75%	5.33%	5.37%	3.54%	5.12%	2.43%
INHAL	6.35E-07	1.21E-05	9.38E-06	7.22E-07	8.11E-07	1.04E-04	6.12E-05	0.00E+00
	.03%	.54%	.30%	.03%	.04%	3.16%	2.70%	.00%
VEGET	2.88E-05	8.46E-05	7.87E-04	1.22E-05	3.78E-06	1.26E-05	1.28E-06	0.00E+00
	1.31%	3.74%	25.41%	.56%	.17%	.39%	.06%	.00%
COW MILK	1.13E-05	1.39E-05	1.41E-04	1.82E-05	1.02E-05	9.94E-04	1.76E-06	0.00E+00
	.52%	.61%	4.55%	.83%	.47%	30.33%	.08%	.00%
MEAT	1.63E-06	7.28E-06	1.39E-05	1.29E-06	4.15E-07	2.12E-05	1.04E-07	0.00E+00
	.07%	.32%	.45%	.06%	.02%	.65%	.00%	.00%
TOTAL	2.19E-03	2.26E-03	3.10E-03	2.18E-03	2.16E-03	3.28E-03	2.27E-03	5.60E-03

TABLE 12. DOSES TO POPULATION WITHIN 50 MILES, OCTOBER-DECEMBER 2002

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.49E-03	2.49E-03	2.49E-03	2.49E-03	2.49E-03	2.49E-03	2.57E-03	6.78E-03
	97.74%	96.98%	82.31%	97.99%	98.09%	67.83%	97.55%	99.31%
GROUND	4.02E-05	4.02E-05	4.02E-05	4.02E-05	4.02E-05	4.02E-05	4.02E-05	4.73E-05
	1.58%	1.56%	1.33%	1.58%	1.58%	1.09%	1.53%	.69%
INHAL	4.92E-07	5.95E-06	8.12E-06	6.04E-07	8.70E-07	1.31E-04	2.34E-05	0.00E+00
	.02%	.23%	.27%	.02%	.03%	3.58%	.89%	.00%
VEGET	1.19E-05	2.49E-05	4.22E-04	3.22E-06	9.88E-07	1.24E-05	3.22E-07	0.00E+00
	.47%	.97%	13.93%	.13%	.04%	.34%	.01%	.00%
COW MILK	4.49E-06	4.16E-06	5.93E-05	6.61E-06	6.27E-06	9.77E-04	4.15E-07	0.00E+00
	.18%	.16%	1.96%	.26%	.25%	26.60%	.02%	.00%
MEAT	5.90E-07	2.48E-06	6.29E-06	4.10E-07	1.84E-07	2.08E-05	2.55E-08	0.00E+00
	.02%	.10%	.21%	.02%	.01%	.57%	.00%	.00%
TOTAL	2.55E-03	2.57E-03	3.03E-03	2.54E-03	2.54E-03	3.67E-03	2.63E-03	6.82E-03

TABLE 13. DOSES TO POPULATION WITHIN 50 MILES, JULY-DECEMBER 2002

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.43E-03	4.43E-03	4.43E-03	4.43E-03	4.43E-03	4.43E-03	4.56E-03	1.20E-02
	95.41%	93.51%	73.72%	95.75%	96.15%	64.63%	94.92%	98.51%
GROUND	1.54E-04	1.54E-04	1.54E-04	1.54E-04	1.54E-04	1.54E-04	1.54E-04	1.81E-04
	3.31%	3.25%	2.56%	3.33%	3.34%	2.25%	3.20%	1.49%
INHAL	1.12E-06	1.82E-05	1.67E-05	1.34E-06	1.67E-06	2.30E-04	8.66E-05	0.00E+00
	.02%	.38%	.28%	.03%	.04%	3.35%	1.80%	.00%
VEGET	4.02E-05	1.08E-04	1.19E-03	1.53E-05	4.73E-06	2.51E-05	1.59E-06	0.00E+00
	.86%	2.28%	19.84%	.33%	.10%	.37%	.03%	.00%
COW MILK	1.56E-05	1.77E-05	1.97E-04	2.46E-05	1.64E-05	1.98E-03	2.15E-06	0.00E+00
	.34%	.37%	3.27%	.53%	.36%	28.80%	.04%	.00%
MEAT	2.21E-06	9.70E-06	1.99E-05	1.69E-06	5.96E-07	4.21E-05	1.29E-07	0.00E+00
	.05%	.20%	.33%	.04%	.01%	.61%	.00%	.00%
TOTAL	4.65E-03	4.74E-03	6.02E-03	4.63E-03	4.61E-03	6.86E-03	4.81E-03	1.22E-02

TABLE 14. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-DECEMBER 2002

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.13E-02	1.13E-02	1.13E-02	1.13E-02	1.13E-02	1.13E-02	1.16E-02	3.01E-02
	96.16%	94.43%	77.78%	96.28%	96.75%	65.98%	95.88%	98.77%
GROUND	3.18E-04	3.18E-04	3.18E-04	3.18E-04	3.18E-04	3.18E-04	3.18E-04	3.74E-04
	2.70%	2.65%	2.18%	2.70%	2.72%	1.85%	2.62%	1.23%
INHAL	2.86E-06	4.82E-05	3.02E-05	4.22E-06	4.43E-06	4.58E-04	1.70E-04	0.00E+00
	.02%	.40%	.21%	.04%	.04%	2.66%	1.40%	.00%
VEGET	8.75E-05	2.38E-04	2.42E-03	4.27E-05	1.36E-05	6.48E-05	4.59E-06	0.00E+00
	.74%	1.98%	16.63%	.36%	.12%	.38%	.04%	.00%
COW MILK	3.95E-05	3.94E-05	4.24E-04	6.78E-05	4.30E-05	4.90E-03	6.16E-06	0.00E+00
	.34%	.33%	2.91%	.58%	.37%	28.51%	.05%	.00%
MEAT	4.97E-06	2.44E-05	4.19E-05	4.37E-06	1.79E-06	1.06E-04	3.68E-07	0.00E+00
	.04%	.20%	.29%	.04%	.02%	.62%	.00%	.00%
TOTAL	1.18E-02	1.20E-02	1.46E-02	1.18E-02	1.17E-02	1.72E-02	1.21E-02	3.05E-02

DOSE CALCULATION MODELS

To evaluate the radiological consequences of the routine release of liquid and gaseous effluents from the Cooper Nuclear Station, two computer codes were used: LADTAP II for liquid doses and GASPAR for gaseous doses. Both of these computer codes implement the dose calculational methodologies of U.S. NRC Regulatory Guide 1.109, Revision 1.

Source terms for each quarter are combined with station-specific demographic data and either hydrological dilution factors, for liquid dose calculations, or atmospheric diffusion estimates, for gaseous dose calculations.

For liquid dose calculations, the hydrological dilution factors used for input to LADTAP II, as well as other input parameters, are listed in Table 12. Other inputs not specifically listed in this table are taken from Regulatory Guide 1.109, Revision 1. Semiannual doses are obtained by summing the contributions from the appropriate quarters.

For gaseous dose calculations, atmospheric diffusion estimates are obtained from the reduction and processing of onsite meteorological data, as described in Appendix B. Source terms for the semiannual period are obtained by summing source terms for the appropriate quarters. Additional input to GASPAR includes the following station-supplied data:

- 0 to 50 mile population distribution
- 0 to 50 mile meat, milk, and vegetable distributions
- Absolute humidity at Cooper Nuclear Station (14.61 g/m^3)
- The fraction of the year that the vegetables are grown (0.5)
- The fraction of the daily feed intake derived from pasture for milk and meat animals (0.5)

Other values used for input to GASPAR are default values from Regulatory Guide 1.109, Rev. 1.

TABLE 15. Values of Parameters Used to Make Dose Estimates Resulting From Liquid Discharges at Cooper Nuclear Station January-December 2002

Parameter	Values Assigned	
	Individual	Population

NO LIQUID EFFLUENTS RELEASED IN 2002

REFERENCES

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U.S. Nuclear Regulatory Commission, Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR 50, Appendix I", Revision 1, 1977.