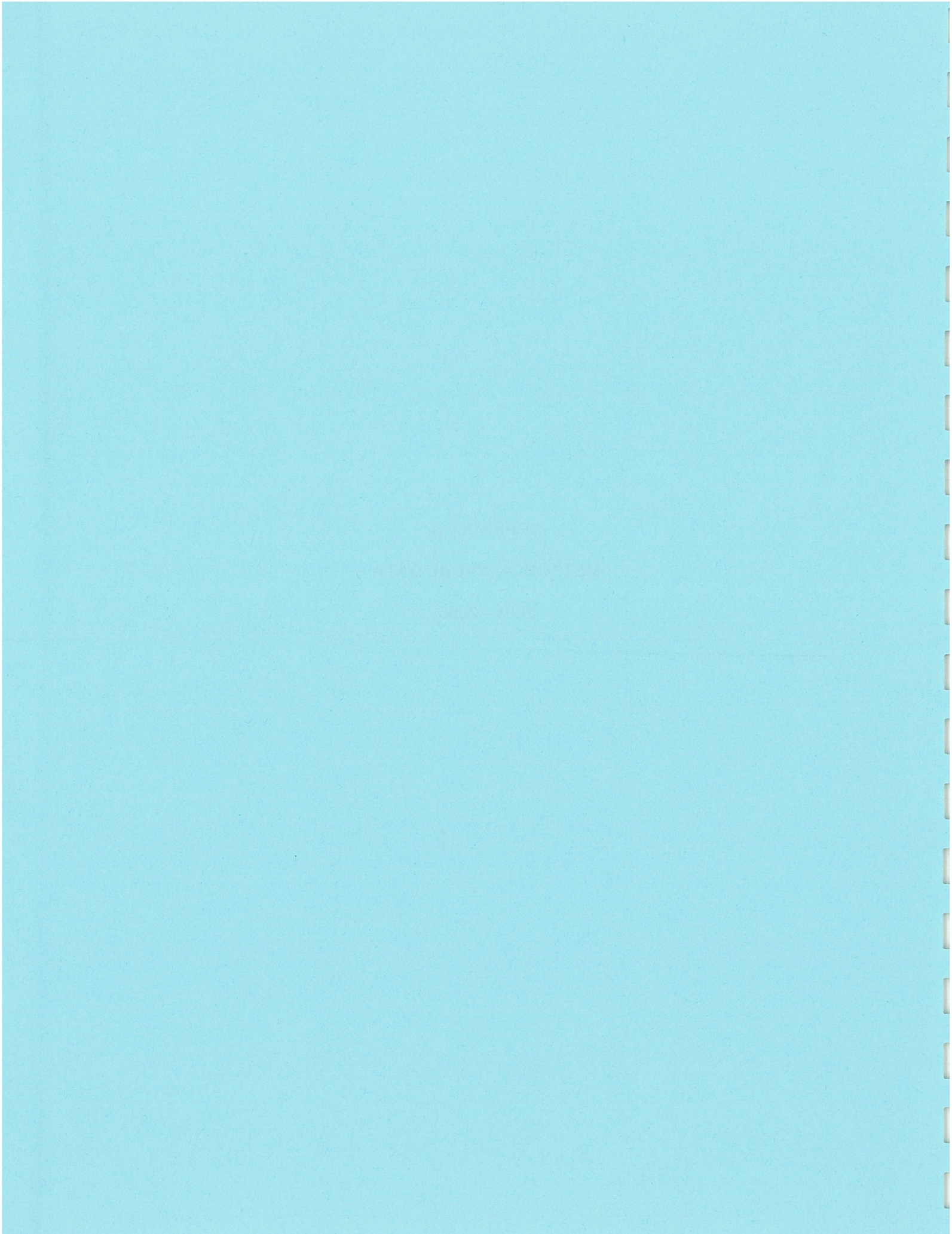


APPENDIX B
METEOROLOGICAL DATA
2001 - 2005



Masa Fujioka

Weather 2001

Log Date: 2001/06

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	----	----	----	----	----	----
02	----	----	----	----	----	----
03	----	----	----	----	----	----
04	----	----	----	----	----	----
05	----	----	----	----	----	----
06	----	----	----	----	----	----
07	----	----	----	----	----	----
08	----	----	----	----	----	----
09	----	----	----	----	----	----
10	----	----	----	----	----	----
11	----	----	----	----	----	----
12	----	----	----	----	----	----
13	----	----	----	----	----	----
14	----	----	----	----	----	----
15	----	----	----	----	----	----
16	----	----	----	----	----	----
17	----	----	----	----	----	----
18	4.2	90.5	83.1	55.2	304.7	0.00
19	4.0	330.4	81.1	54.7	294.5	0.00
20	4.9	262.8	80.3	57.0	237.7	0.00
21	6.1	252.4	81.3	56.0	308.8	0.00
22	9.4	68.8	80.7	59.4	276.2	0.01
23	6.6	212.2	82.4	55.5	327.5	0.00
24	7.7	218.3	81.6	55.9	275.6	0.00
25	5.2	212.4	82.3	68.2	259.2	0.00
26	6.2	106.4	82.3	56.4	325.6	0.00
27	5.7	140.7	80.7	56.8	252.0	0.00
28	6.0	136.8	81.0	65.5	232.8	0.00
29	4.7	132.9	80.7	66.1	243.1	0.00
30	4.0	102.1	81.5	72.5	236.6	0.00
Sum	74.6		1059.2	779.2	3574.4	0.01
Average	5.7	157.6	81.5	59.9	275.0	0.00
Maximum Date	9.4 22		83.1 18	72.5 30	327.5 23	0.01 22
Minimum Date	4.0 30		80.3 20	54.7 19	232.8 28	0.00 18
Standard # above	----	----	----	----	----	----
Valid	43%	43%	43%	43%	43%	43%

Masa Fujioka

Weather 2001

Log Date: 2001/07

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	3.6	78.7	81.5	74.4	174.4	0.00
02	3.3	78.6	80.8	79.2	170.3	0.00
03	3.9	78.7	82.2	71.7	249.6	0.00
04	3.9	78.7	81.2	73.7	260.9	0.00
05	4.1	27.2	81.1	69.2	246.4	0.01
06	5.7	272.6	83.0	59.0	314.5	0.00
07	6.3	235.7	83.0	56.1	328.4	0.00
08	6.0	225.1	80.4	62.5	284.5	0.00
09	4.3	142.2	80.6	67.7	162.6	0.00
10	6.1	98.9	83.4	59.5	268.8	0.00
11	6.5	166.5	83.4	55.7	324.9	0.00
12	5.5	123.9	82.4	55.9	288.9	0.00
13	5.9	124.2	82.3	55.2	286.3	0.00
14	5.8	89.1	82.9	62.0	250.6	0.00
15	5.6	344.5	82.3	69.5	251.3	0.00
16	5.5	261.6	84.0	61.0	281.4	0.00
17	5.3	126.7	82.0	62.6	245.4	0.00
18	5.9	138.6	82.3	60.1	245.6	0.01
19	8.3	174.8	83.6	54.5	326.6	0.00
20	6.7	192.4	83.1	59.1	319.9	0.00
21	5.6	253.4	83.6	60.3	265.6	0.00
22	7.0	179.2	82.3	57.6	309.5	0.00
23	6.3	121.3	81.2	60.4	299.7	0.00
24	6.3	57.4	81.7	59.2	258.4	0.00
25	6.2	34.1	80.9	61.6	279.4	0.00
26	5.9	107.2	81.7	62.0	206.0	0.00
27	5.7	88.7	80.8	60.6	187.7	0.00
28	5.7	225.6	80.6	62.5	251.1	0.00
29	5.8	250.8	83.4	62.8	271.0	0.00
30	7.5	43.7	85.2	61.2	312.3	0.00
31	7.4	101.0	82.6	58.6	301.3	0.00
Sum	177.6		2549.6	1935.6	8223.3	0.02
Average	5.7	122.9	82.2	62.4	265.3	0.00
Maximum Date	8.3 19		85.2 30	79.2 2	328.4 7	0.01 5
Minimum Date	3.3 2		80.4 8	54.5 19	162.6 9	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Weather 2001

Log Date: 2001/08

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	7.0	95.6	83.2	58.4	328.2	0.00
02	6.1	68.5	83.7	65.0	341.1	0.00
03	4.8	137.3	82.0	67.5	133.8	0.00
04	6.1	119.0	83.2	59.1	278.9	0.00
05	4.6	125.4	82.4	62.8	207.4	0.00
06	5.3	197.5	83.3	59.3	288.0	0.00
07	6.0	152.1	83.2	56.7	306.0	0.00
08	6.5	202.6	83.0	58.8	207.1	0.00
09	6.0	192.9	84.5	61.7	302.1	0.00
10	6.0	230.6	84.4	60.3	244.0	0.00
11	7.1	159.4	83.1	54.9	321.9	0.00
12	7.8	122.2	83.2	55.8	311.5	0.00
13	7.0	314.9	83.1	57.4	282.5	0.00
14	6.5	295.2	83.0	53.1	307.2	0.00
15	6.2	120.4	82.1	59.8	243.7	0.00
16	5.6	112.8	84.1	70.9	168.2	0.00
17	6.0	112.7	84.6	65.1	306.9	0.00
18	6.2	97.8	84.2	63.4	230.6	0.00
19	7.8	157.6	83.2	57.5	307.6	0.00
20	6.7	175.4	82.2	60.9	229.0	0.00
21	6.8	17.3	82.6	61.7	194.7	0.00
22	7.8	224.1	82.9	65.5	226.7	0.00
23	6.9	113.0	83.7	56.9	242.1	0.00
24	5.9	117.0	82.5	60.3	220.8	0.00
25	6.5	48.4	81.8	65.6	263.9	0.00
26	5.4	353.6	81.5	64.2	299.8	0.00
27	4.1	353.6	81.4	76.6	129.7	0.00
28	5.6	353.6	82.4	73.7	256.5	0.00
29	6.0	342.5	84.7	59.9	284.8	0.00
30	7.0	97.2	84.8	58.3	311.8	0.00
31	7.0	247.8	83.3	61.2	264.5	0.02
Sum	194.2		2577.5	1912.4	8040.9	0.02
Average	6.3	125.9	83.1	61.7	259.4	0.00
Maximum Date	7.8 22		84.8 30	76.6 27	341.1 2	0.02 31
Minimum Date	4.1 27		81.4 27	53.1 14	129.7 27	0.00 1
Standard # above	-----	-----	-----	-----	-----	-----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Weather 2001

Log Date: 2001/09

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	6.7	164.6	83.0	57.7	285.5	0.00
02	6.4	209.4	81.8	59.6	300.8	0.00
03	5.6	91.1	82.7	58.6	305.3	0.00
04	6.7	90.3	81.5	61.6	263.6	0.00
05	6.2	57.7	80.6	66.2	163.9	0.00
06	6.7	134.3	81.6	64.0	279.2	0.00
07	5.7	111.6	81.6	64.0	298.0	0.00
08	6.2	100.8	82.3	65.9	269.6	0.00
09	5.6	87.9	83.2	66.5	233.1	0.00
10	5.8	84.3	84.6	62.5	302.2	0.00
11	6.2	81.7	82.3	65.2	302.1	0.00
12	5.4	170.1	83.6	54.6	285.9	0.00
13	5.6	186.2	82.0	59.0	237.1	0.00
14	4.3	112.5	81.5	64.2	278.0	0.00
15	4.8	110.0	83.2	69.9	232.0	0.00
16	5.3	56.1	83.5	69.0	136.3	0.00
17	6.1	332.4	84.0	58.6	247.9	0.00
18	6.7	186.0	82.4	56.6	204.5	0.01
19	6.2	83.6	81.7	60.9	207.4	0.00
20	5.1	67.2	81.8	59.9	227.0	0.00
21	6.5	235.8	82.5	58.1	249.9	0.00
22	6.5	291.0	82.7	56.8	284.1	0.00
23	5.3	244.4	81.6	57.6	112.1	0.00
24	5.7	96.8	80.7	62.5	169.1	0.00
25	5.1	97.7	82.0	59.6	285.3	0.00
26	5.6	33.9	82.1	63.6	201.5	0.00
27	6.2	55.1	82.5	60.3	252.0	0.00
28	5.5	254.2	82.8	59.1	257.5	0.00
29	5.8	213.2	81.5	60.8	213.0	0.00
30	6.4	49.2	82.3	56.9	233.0	0.00
Sum	175.6		2469.8	1839.6	7317.1	0.01
Average	5.9	108.0	82.3	61.3	243.9	0.00
Maximum Date	6.7 1		84.6 10	69.9 15	305.3 3	0.01 18
Minimum Date	4.3 14		80.6 5	54.6 12	112.1 23	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Weather 2001

Log Date: 2001/10

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	8.8	36.8	79.2	65.2	200.5	0.00
02	4.8	49.3	78.1	61.6	214.7	0.00
03	4.2	49.3	79.0	61.0	265.0	0.01
04	5.1	49.3	81.5	67.6	267.3	0.00
05	5.3	107.2	82.9	66.4	155.6	0.00
06	6.2	102.6	82.6	59.5	214.6	0.00
07	10.0	73.7	81.9	62.0	256.5	0.01
08	8.4	48.9	83.5	55.3	274.0	0.00
09	6.1	6.6	82.9	56.9	244.4	0.00
10	7.2	228.4	82.2	61.2	246.4	0.00
11	5.4	46.0	80.8	66.1	122.7	0.00
12	6.2	35.1	82.2	62.5	145.4	0.00
13	5.7	119.3	82.4	60.8	177.3	0.00
14	5.4	206.2	80.0	63.8	220.3	0.00
15	7.0	123.6	80.1	61.8	191.8	0.00
16	5.7	3.5	81.4	59.9	204.9	0.00
17	6.0	131.6	81.8	57.8	169.7	0.00
18	5.7	62.3	82.4	57.8	212.1	0.00
19	6.1	56.0	81.8	57.7	224.5	0.00
20	6.5	51.6	80.0	59.2	218.3	0.00
21	7.5	12.1	80.3	56.4	249.4	0.00
22	4.9	186.9	79.4	59.4	165.3	0.00
23	4.2	132.6	79.5	66.4	207.0	0.00
24	4.4	110.2	80.1	73.0	203.3	0.11
25	4.8	87.7	81.2	78.5	194.4	0.00
26	5.2	87.8	81.2	75.1	222.3	0.02
27	8.6	76.8	78.4	71.5	177.4	0.05
28	10.3	306.9	77.8	60.9	252.0	0.00
29	7.6	246.6	79.4	56.2	248.3	0.00
30	6.8	104.8	79.3	59.6	200.1	0.00
31	5.6	296.9	80.0	64.6	185.0	0.00
Sum	195.6		2503.2	1945.7	6530.4	0.20
Average	6.3	72.3	80.7	62.8	210.7	0.01
Maximum Date	10.3 28		83.5 8	78.5 25	274.0 8	0.11 24
Minimum Date	4.2 23		77.8 28	55.3 8	122.7 11	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Weather 2001

Log Date: 2001/11

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	6.4	208.6	80.2	64.4	217.4	0.01
02	5.4	92.7	81.2	64.9	152.0	0.00
03	5.4	61.9	81.0	63.2	168.6	0.00
04	6.4	3.4	81.5	60.7	201.7	0.00
05	7.2	103.3	81.3	57.6	234.8	0.00
06	6.4	103.1	80.9	60.0	174.4	0.00
07	4.1	41.2	78.3	73.5	80.1	0.22
08	5.9	4.9	80.1	66.5	160.6	0.00
09	6.4	358.8	79.5	61.7	157.5	0.00
10	5.8	5.4	77.6	62.3	120.9	0.00
11	5.5	357.5	78.0	56.7	159.7	0.00
12	4.9	348.0	79.4	60.6	198.4	0.00
13	5.2	303.4	77.7	67.8	165.9	0.00
14	4.8	280.6	76.8	66.8	221.4	0.00
15	4.3	280.5	76.4	68.4	226.9	0.00
16	4.3	280.4	75.2	73.5	227.0	0.00
17	3.5	280.4	75.4	73.7	214.3	0.00
18	3.6	280.4	74.5	83.9	95.5	0.00
19	3.8	280.4	75.1	79.6	156.8	0.00
20	4.0	194.6	75.9	75.5	216.9	0.00
21	3.6	107.9	77.0	75.7	147.4	0.00
22	6.0	103.7	78.2	73.6	203.9	0.00
23	4.7	87.2	81.1	65.6	206.6	0.00
24	4.1	81.6	78.5	69.8	209.2	0.00
25	6.2	97.0	78.6	78.3	169.4	0.01
26	7.8	34.4	80.3	85.0	137.2	0.21
27	9.2	9.3	74.5	89.4	35.8	2.87
28	7.3	317.8	79.7	79.6	122.2	0.01
29	4.3	300.3	79.9	67.8	187.0	0.02
30	4.5	269.0	78.4	68.5	145.7	0.00
Sum	161.1		2352.3	2094.5	5115.4	3.35
Average	5.4	0.5	78.4	69.8	170.5	0.11
Maximum Date	9.2 27		81.5 4	89.4 27	234.8 5	2.87 27
Minimum Date	3.5 17		74.5 18	56.7 11	35.8 27	0.00 2
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Weather 2001

Log Date: 2001/12

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	6.7	260.5	79.1	67.2	117.0	0.00
02	14.7	318.4	80.0	62.2	198.4	0.00
03	9.7	288.5	79.9	62.4	141.0	0.01
04	7.5	90.8	79.8	67.3	105.6	0.00
05	8.4	143.6	78.6	63.2	159.8	0.00
06	8.4	222.8	78.8	61.8	175.0	0.00
07	6.9	73.6	78.5	59.4	179.4	0.00
08	8.9	95.5	77.9	61.7	186.3	0.01
09	10.2	47.2	78.3	59.8	174.2	0.00
10	7.3	111.6	78.3	58.7	187.3	0.00
11	9.6	70.8	77.8	59.9	196.9	0.00
12	10.4	161.1	78.0	58.8	198.5	0.07
13	15.9	59.0	76.1	71.9	93.1	0.18
14	10.6	228.8	77.9	71.8	73.8	0.03
15	6.2	162.4	77.7	70.1	73.2	0.02
16	4.3	138.2	77.9	67.7	149.0	0.00
17	6.2	92.7	78.0	62.8	199.7	0.03
18	5.1	63.4	77.4	66.0	151.2	0.00
19	6.0	103.3	78.0	64.6	198.0	0.00
20	4.9	103.2	77.8	66.9	163.3	0.00
21	4.1	91.1	77.2	65.0	179.7	0.00
22	5.6	98.3	74.1	69.6	204.9	0.00
23	7.1	244.1	74.7	71.2	134.3	0.00
24	3.5	230.9	76.0	74.3	162.9	0.00
25	5.8	231.0	76.8	72.6	171.1	0.00
26	3.8	231.0	75.2	79.9	133.6	0.04
27	5.5	230.9	74.9	78.7	191.0	0.01
28	6.9	198.1	77.9	79.7	152.7	0.00
29	7.1	101.1	76.1	77.4	206.3	0.09
30	8.6	56.8	76.5	76.7	156.1	0.43
31	8.7	320.0	74.6	69.1	185.5	0.03
Sum	234.6		2399.9	2098.5	4998.7	0.95
Average	7.6	128.9	77.4	67.7	161.2	0.03
Maximum Date	15.9 13		80.0 2	79.9 26	206.3 29	0.43 30
Minimum Date	3.5 24		74.1 22	58.7 10	73.2 15	0.00 1
Standard # above	-----	-----	-----	-----	-----	-----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Weather Data 1/02 to 9/02

Log Date: 2002/01

Printing: 2004/08/23

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	4.0	118.6	69.9	72.3	209.3	0.00
02	6.3	150.8	73.1	74.7	157.0	0.00
03	7.3	214.9	74.9	68.0	209.8	0.00
04	4.8	212.9	73.5	77.3	203.3	0.00
05	6.2	136.8	77.3	82.1	114.8	0.03
06	5.9	119.3	77.7	75.1	143.4	0.07
07	4.7	118.4	75.7	72.8	167.9	0.00
08	3.9	118.4	77.8	79.6	193.3	0.00
09	5.5	115.6	75.7	81.6	191.5	0.00
10	8.1	48.2	74.2	60.5	206.9	0.00
11	5.1	36.4	75.0	63.0	213.3	0.01
12	5.2	28.0	77.7	62.9	182.4	0.00
13	6.4	278.4	77.8	65.2	200.4	0.00
14	5.0	262.0	74.6	76.1	218.0	0.00
15	5.5	261.8	77.8	61.7	206.9	0.00
16	5.9	242.6	75.8	58.3	207.1	0.00
17	6.3	183.9	75.6	60.6	163.7	0.00
18	10.2	219.5	72.3	64.3	133.8	0.11
19	9.5	274.1	73.7	58.2	197.9	0.06
20	9.5	298.9	73.8	61.2	176.6	0.00
21	6.0	310.1	76.3	62.1	217.9	0.00
22	4.6	282.6	75.6	75.8	181.6	0.05
23	4.5	283.4	74.5	80.9	225.0	0.00
24	4.0	283.4	76.0	76.8	106.2	0.00
25	5.8	283.2	79.0	69.9	88.1	0.00
26	5.0	133.0	76.8	77.0	52.1	0.10
27	5.6	163.3	76.1	75.0	144.9	0.05
28	7.0	175.6	75.6	76.6	83.6	0.31
29	8.4	158.3	73.9	88.2	53.8	1.84
30	5.1	111.3	76.0	87.2	116.6	0.36
31	5.6	117.5	77.6	77.1	119.4	0.00
Sum	186.8		2341.1	2222.0	5086.3	2.99
Average	6.0	191.0	75.5	71.7	164.1	0.10
Maximum Date	10.2 18		79.0 25	88.2 29	225.0 23	1.84 29
Minimum Date	3.9 8		69.9 1	58.2 19	52.1 26	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Weather Data 1/02 to 9/02

Log Date: 2002/02

Printing: 2004/08/23

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	6.2	184.7	77.1	67.0	238.2	0.00
02	5.4	185.4	75.0	71.7	222.2	0.00
03	6.9	185.3	73.1	78.4	235.6	0.00
04	6.7	185.3	73.9	81.8	119.6	0.00
05	5.0	185.3	75.1	70.8	203.1	0.00
06	4.5	185.3	75.5	71.1	222.8	0.00
07	4.5	185.3	74.1	78.4	206.7	0.01
08	6.8	137.4	70.2	77.1	62.3	0.71
09	7.8	133.3	70.5	55.1	248.7	0.00
10	7.7	72.5	71.4	54.4	241.2	0.00
11	6.0	45.0	70.7	56.9	159.2	0.00
12	5.7	36.0	72.4	66.1	203.9	0.00
13	6.3	269.5	74.5	67.7	223.0	0.00
14	6.1	249.7	74.9	64.1	230.8	0.00
15	5.2	235.5	76.4	66.1	221.5	0.00
16	4.6	232.9	75.8	66.6	184.3	0.00
17	5.4	232.8	77.7	62.7	196.5	0.00
18	5.0	232.7	76.2	68.2	254.1	0.00
19	6.7	209.3	75.3	66.2	251.6	0.00
20	8.8	172.7	74.2	63.0	252.6	0.00
21	6.5	208.8	73.0	59.1	275.8	0.00
22	4.9	107.9	71.8	62.6	160.9	0.00
23	5.9	95.6	72.3	62.4	141.4	0.00
24	11.0	24.6	74.4	58.3	269.1	0.00
25	10.4	156.8	74.1	57.5	278.5	0.00
26	11.1	140.1	72.9	55.7	274.7	0.00
27	7.2	201.7	73.5	53.1	277.1	0.00
28	5.5	181.5	71.9	58.7	232.4	0.00
Sum	183.9		2067.7	1820.5	6087.9	0.72
Average	6.6	179.9	73.8	65.0	217.4	0.03
Maximum Date	11.1 26		77.7 17	81.8 4	278.5 25	0.71 8
Minimum Date	4.5 7		70.2 8	53.1 27	62.3 8	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Weather Data 1/02 to 9/02

Log Date: 2002/03

Printing: 2004/08/23

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	7.3	166.9	72.3	58.2	240.6	0.00
02	8.1	120.6	70.1	64.5	215.9	0.00
03	9.8	67.0	70.6	52.1	277.0	0.00
04	6.4	96.7	71.6	57.2	193.3	0.00
05	7.5	261.2	75.7	59.9	267.7	0.00
06	5.6	202.1	77.9	71.1	273.8	0.00
07	4.8	202.0	77.3	77.5	254.4	0.12
08	4.6	201.9	77.0	81.2	266.9	0.01
09	4.8	201.9	78.3	73.9	232.3	0.99
10	5.9	117.5	77.0	73.2	257.3	0.03
11	6.7	195.3	76.7	64.8	249.5	0.00
12	5.3	61.1	75.7	71.2	262.2	0.00
13	4.0	65.8	75.7	73.7	286.1	0.00
14	4.2	73.8	74.9	80.0	260.9	0.00
15	3.8	69.0	75.2	80.0	166.8	0.00
16	5.3	61.2	75.6	78.4	280.6	0.00
17	16.5	77.8	71.6	69.0	296.9	0.00
18	15.0	164.9	70.6	54.2	300.9	0.00
19	9.3	30.8	71.0	54.8	291.2	0.00
20	6.0	254.6	73.4	54.3	253.1	0.00
21	7.2	199.2	74.7	61.1	308.3	0.00
22	6.8	148.6	77.3	63.0	276.1	0.00
23	6.0	132.8	77.3	67.4	302.5	0.00
24	6.0	195.0	78.6	63.3	188.5	0.00
25	7.9	326.4	79.9	68.9	185.6	0.01
26	6.3	84.5	78.7	70.5	168.6	0.00
27	5.3	94.4	77.5	71.6	156.2	0.04
28	5.6	167.2	77.4	70.4	274.1	0.00
29	6.0	209.4	74.9	89.0	156.1	0.99
30	5.5	107.8	74.3	70.4	256.0	0.00
31	5.5	107.8	71.8	68.7	311.5	0.00
Sum	209.0		2330.5	2113.4	7710.9	2.19
Average	6.7	133.5	75.2	68.2	248.7	0.07
Maximum Date	16.5 17		79.9 25	89.0 29	311.5 31	0.99 9
Minimum Date	3.8 15		70.1 2	52.1 3	156.1 29	0.00 1
Standard # above	-----	-----	-----	-----	-----	-----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Weather Data 1/02 to 9/02

Log Date: 2002/04

Printing: 2004/08/23

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	6.1	107.8	71.6	64.5	316.8	0.00
02	5.7	107.8	73.1	63.3	284.4	0.00
03	7.6	106.6	74.1	62.7	212.6	0.00
04	5.1	295.9	75.4	67.6	271.2	0.00
05	4.8	83.2	74.7	75.8	307.4	0.00
06	4.0	83.2	76.4	77.8	265.5	0.00
07	6.2	72.3	75.7	79.3	294.2	0.00
08	4.5	56.6	77.4	74.8	303.3	0.00
09	4.1	56.5	79.9	76.2	306.8	0.00
10	5.0	337.0	78.9	80.3	318.7	0.00
11	4.4	268.9	78.5	80.5	285.1	0.00
12	5.0	268.9	78.1	74.0	296.2	0.00
13	4.8	200.6	78.9	73.6	287.2	0.00
14	5.2	106.1	80.5	71.6	278.5	0.00
15	4.8	81.6	77.2	77.6	155.7	0.00
16	5.6	81.6	80.5	63.5	292.6	0.00
17	5.8	81.6	79.4	70.4	218.5	0.00
18	4.7	93.2	79.8	72.7	296.2	0.08
19	4.2	106.7	79.7	82.4	302.1	0.15
20	3.8	106.8	78.2	83.3	183.4	0.01
21	5.5	87.1	80.3	65.1	264.0	0.00
22	8.6	235.8	80.5	60.6	315.7	0.00
23	7.6	47.7	79.3	58.5	284.2	0.00
24	5.7	29.5	78.1	63.3	224.7	0.00
25	4.6	329.9	77.7	73.4	188.5	0.08
26	4.7	279.3	78.5	73.6	181.1	0.00
27	6.1	324.6	79.4	66.6	275.9	0.00
28	5.2	79.1	79.1	68.1	178.5	0.00
29	5.4	51.8	77.9	75.6	227.0	0.01
30	6.8	313.5	79.7	64.6	224.0	0.00
Sum	161.5		2338.5	2141.3	7839.9	0.33
Average	5.4	65.6	77.9	71.4	261.3	0.01
Maximum Date	8.6 22		80.5 22	83.3 20	318.7 10	0.15 19
Minimum Date	3.8 20		71.6 1	58.5 23	155.7 15	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Weather Data 1/02 to 9/02

Log Date: 2002/05

Printing: 2004/08/23

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	5.9	251.1	80.5	64.1	233.5	0.00
02	6.7	56.8	79.5	64.6	289.7	0.00
03	4.6	55.7	77.4	71.3	162.9	0.00
04	4.3	75.2	77.9	74.8	222.9	0.00
05	5.4	100.4	78.4	73.2	114.8	0.07
06	4.4	356.3	75.2	87.8	95.6	0.96
07	5.3	328.1	78.0	77.0	138.3	0.04
08	7.0	261.9	78.8	69.7	145.7	0.00
09	5.2	119.4	79.0	71.8	182.7	0.00
10	5.1	268.4	80.0	76.6	134.2	0.00
11	4.4	269.8	80.2	68.3	134.4	0.00
12	5.0	269.8	79.3	72.2	131.5	0.36
13	5.9	259.1	78.8	72.9	260.5	0.23
14	5.6	249.1	81.4	70.5	202.0	0.01
15	6.3	181.7	82.6	68.7	267.2	0.00
16	6.7	166.3	80.6	67.7	231.6	0.00
17	6.2	157.1	80.5	64.3	228.1	0.00
18	6.4	103.2	81.1	64.6	267.5	0.00
19	8.1	41.0	80.6	66.2	245.0	0.00
20	5.3	42.5	80.4	67.2	194.8	0.00
21	4.7	42.4	78.7	76.8	333.4	0.00
22	4.7	42.4	77.0	85.7	180.9	0.01
23	4.1	42.4	79.2	81.7	301.7	0.00
24	3.7	42.4	78.1	81.1	158.8	0.00
25	4.5	42.5	79.8	77.5	268.6	0.00
26	4.2	42.5	77.9	79.9	219.4	0.00
27	4.2	42.5	79.0	76.7	240.1	0.00
28	4.1	42.5	79.5	75.4	258.5	0.00
29	4.1	42.6	80.0	72.9	177.2	0.00
30	4.8	42.8	81.8	66.4	237.5	0.00
31	5.6	42.8	82.2	64.9	256.9	0.00
Sum	162.2		2463.6	2252.1	6516.2	1.68
Average	5.2	42.8	79.5	72.6	210.2	0.05
Maximum Date	8.1 19		82.6 15	87.8 6	333.4 21	0.96 6
Minimum Date	3.7 24		75.2 6	64.1 1	95.6 6	0.00 1
Standard # above	-----	-----	-----	-----	-----	-----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Weather Data 1/02 to 9/02

Log Date: 2002/06

Printing: 2004/08/23

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	5.7	42.6	82.2	63.8	328.7	0.00
02	4.7	42.5	80.8	72.9	195.7	0.01
03	4.3	42.5	81.4	75.3	257.1	0.00
04	5.2	42.5	82.9	65.9	239.4	0.00
05	5.0	42.5	82.6	61.9	270.1	0.00
06	5.8	42.5	81.7	66.2	198.4	0.00
07	5.3	41.3	80.8	64.9	170.0	0.00
08	6.2	39.9	81.0	64.1	210.8	0.00
09	4.3	36.6	80.2	67.0	221.5	0.00
10	5.2	16.5	81.9	66.9	198.6	0.00
11	7.0	330.6	82.6	61.7	260.9	0.00
12	6.8	323.2	81.9	59.4	316.3	0.00
13	6.2	358.0	82.4	56.8	321.2	0.00
14	7.5	285.2	81.7	56.3	343.5	0.00
15	7.5	10.1	81.2	58.4	196.1	0.00
16	7.5	27.8	82.1	56.6	321.9	0.00
17	7.1	186.5	81.8	59.9	257.9	0.07
18	5.5	181.5	82.5	65.6	241.2	0.00
19	5.5	181.0	82.8	65.0	276.9	0.00
20	5.4	181.0	81.9	60.7	249.8	0.00
21	5.7	179.5	81.3	69.7	215.6	0.00
22	5.0	176.8	82.9	69.6	267.9	0.00
23	6.1	172.6	83.3	61.5	318.7	0.00
24	5.5	166.2	82.2	64.5	216.7	0.00
25	6.2	161.3	82.1	56.9	313.7	0.00
26	6.2	155.9	82.0	57.2	273.3	0.00
27	6.3	153.0	81.1	61.1	262.2	0.00
28	7.3	135.8	81.0	65.3	270.9	0.00
29	6.4	134.8	81.7	61.2	232.2	0.00
30	7.3	129.9	82.1	61.3	246.1	0.00
Sum	179.8		2455.8	1897.5	7693.3	0.08
Average	6.0	91.8	81.9	63.2	256.4	0.00
Maximum Date	7.5 14		83.3 23	75.3 3	343.5 14	0.07 17
Minimum Date	4.3 3		80.2 9	56.3 14	170.0 7	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Weather Data 1/02 to 9/02

Log Date: 2002/07

Printing: 2004/08/23

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	7.2	179.3	83.9	69.4	286.6	0.00
02	6.9	176.5	84.0	64.1	279.5	0.00
03	6.1	169.0	82.4	64.2	220.4	0.00
04	6.5	165.0	81.9	59.3	222.3	0.00
05	7.7	143.6	82.7	57.0	314.0	0.00
06	6.1	116.7	80.7	60.5	242.4	0.00
07	7.1	115.1	80.8	65.9	257.1	0.00
08	6.3	242.9	81.6	65.1	201.3	0.00
09	6.9	155.3	82.3	61.5	309.4	0.00
10	6.7	132.0	81.0	67.9	177.5	0.00
11	6.0	128.2	83.7	60.8	287.3	0.00
12	7.1	127.1	81.3	66.0	256.9	0.00
13	6.5	126.4	81.2	64.4	273.7	0.00
14	7.0	115.8	80.1	66.5	148.1	0.00
15	6.5	125.0	83.4	59.3	308.7	0.00
16	5.8	113.5	83.2	60.5	280.7	0.00
17	5.3	113.5	82.8	64.4	276.5	0.00
18	5.4	113.4	82.3	65.4	246.2	0.00
19	7.3	114.7	81.4	70.5	218.7	0.00
20	7.8	264.2	82.2	62.1	329.4	0.00
21	5.6	268.0	80.5	75.3	194.0	0.02
22	6.9	258.6	82.7	59.8	332.5	0.00
23	6.6	243.7	81.8	58.2	328.8	0.00
24	5.4	210.9	80.7	64.7	214.1	0.00
25	6.5	208.3	82.7	55.7	316.2	0.00
26	5.6	205.9	83.1	57.9	334.4	0.00
27	6.5	203.3	82.1	65.5	232.0	0.00
28	5.3	203.3	82.7	70.9	226.4	0.00
29	4.4	203.2	82.2	78.0	247.2	0.00
30	5.2	203.2	84.0	73.2	273.3	0.00
31	5.2	203.3	82.0	73.5	218.8	0.00
Sum	195.4		2547.5	2007.7	8054.1	0.02
Average	6.3	169.6	82.2	64.8	259.8	0.00
Maximum Date	7.8 20		84.0 30	78.0 29	334.4 26	0.02 21
Minimum Date	4.4 29		80.1 14	55.7 25	148.1 14	0.00 1
Standard # above	-----	-----	-----	-----	-----	-----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Weather Data 1/02 to 9/02

Log Date: 2002/08

Printing: 2004/08/23

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	6.1	203.3	83.5	64.5	240.4	0.00
02	5.2	203.3	81.8	63.4	189.0	0.00
03	4.9	202.4	82.6	65.0	194.4	0.00
04	6.4	199.4	83.2	65.2	260.4	0.00
05	5.7	196.5	83.7	63.2	224.5	0.00
06	6.6	116.1	83.0	63.4	230.5	0.00
07	7.3	218.1	83.5	61.3	306.6	0.00
08	5.8	100.3	83.6	59.6	268.2	0.00
09	5.9	186.6	83.2	60.5	213.9	0.00
10	5.6	85.0	83.8	61.4	214.2	0.00
11	5.8	82.2	81.9	68.0	181.2	0.00
12	5.0	82.3	81.6	74.8	182.0	0.00
13	3.8	82.3	80.7	76.7	141.3	0.00
14	3.9	82.3	80.6	84.0	77.0	0.02
15	5.4	82.3	82.5	76.0	173.1	0.00
16	5.6	82.3	82.4	68.2	251.7	0.00
17	5.5	357.1	84.5	58.0	305.9	0.00
18	5.9	267.0	83.9	61.6	256.0	0.00
19	6.2	258.7	84.0	60.5	293.2	0.00
20	6.1	237.4	84.0	60.6	296.5	0.00
21	5.1	201.9	82.0	65.2	197.1	0.00
22	4.7	201.5	80.6	65.9	162.2	0.00
23	5.6	201.4	81.4	65.1	226.6	0.00
24	6.3	201.5	83.2	66.2	288.6	0.00
25	5.9	200.6	83.7	71.3	239.8	0.00
26	6.8	185.1	83.7	66.2	208.4	0.01
27	6.1	73.1	82.6	61.5	222.7	0.00
28	6.2	353.1	82.7	65.9	180.2	0.00
29	6.1	318.8	83.6	67.5	261.8	0.00
30	3.6	318.8	83.3	76.7	221.7	0.05
31	4.9	318.8	83.1	74.4	179.9	0.00
Sum	173.9		2568.0	2061.7	6889.1	0.08
Average	5.6	177.3	82.8	66.5	222.2	0.00
Maximum Date	7.3 7		84.5 17	84.0 14	306.6 7	0.05 30
Minimum Date	3.6 30		80.6 22	58.0 17	77.0 14	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Weather Data 1/02 to 9/02

Log Date: 2002/09

Printing: 2004/08/23

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	6.0	318.8	84.4	61.9	234.3	0.00
02	4.1	318.7	80.0	72.1	154.6	0.63
03	4.0	318.7	77.1	84.3	102.5	0.90
04	4.9	318.7	81.6	71.0	204.6	0.00
05	5.4	309.4	82.8	62.4	279.8	0.00
06	5.2	296.2	83.1	64.7	212.7	0.00
07	7.1	208.0	83.8	60.6	283.8	0.00
08	5.8	114.8	82.8	62.4	195.8	0.00
09	8.0	236.8	83.7	58.8	294.6	0.00
10	5.0	250.2	82.3	64.8	143.0	0.00
11	4.8	247.6	80.4	66.6	140.2	0.00
12	5.2	247.5	81.7	63.1	188.3	0.00
13	5.2	245.6	82.2	62.2	283.7	0.00
14	5.5	240.8	81.9	64.3	208.7	0.00
15	7.1	145.6	82.8	59.6	244.9	0.00
16	6.9	55.4	82.2	63.4	234.3	0.00
17	7.4	217.9	83.3	59.9	257.8	0.00
18	5.5	260.5	82.5	62.3	206.3	0.00
19	3.7	269.3	82.3	74.9	265.5	0.00
20	5.7	268.1	80.4	76.6	295.0	0.00
21	3.7	257.0	79.8	70.0	180.3	0.00
22	4.5	244.2	80.4	67.0	203.9	0.00
23	4.6	244.2	80.4	69.0	292.0	0.00
24	3.8	244.2	80.5	72.3	290.1	0.00
25	3.7	244.2	80.6	75.2	277.2	0.00
26	3.4	244.2	81.4	74.9	277.0	0.00
27	4.6	237.5	82.4	73.0	289.9	0.02
28	5.7	221.3	80.8	68.7	229.4	0.00
29	5.8	217.6	81.5	61.8	217.1	0.00
30	6.8	54.8	81.8	61.3	206.6	0.00
Sum	159.3		2450.8	2009.2	6893.8	1.55
Average	5.3	254.9	81.7	67.0	229.8	0.05
Maximum Date	8.0 9		84.4 1	84.3 3	295.0 20	0.90 3
Minimum Date	3.4 26		77.1 3	58.8 9	102.5 3	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Log Date: 2002/10

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	7.1	200.6	82.3	59.4	201.9	0.00
02	5.6	131.2	82.7	62.7	224.1	0.00
03	3.9	11.5	82.0	72.4	201.3	0.00
04	4.8	267.3	82.7	70.7	224.6	0.00
05	6.4	180.7	83.0	63.0	248.1	0.00
06	6.8	113.6	82.6	59.2	279.9	0.00
07	6.0	18.7	82.6	58.3	236.2	0.00
08	5.7	98.8	81.7	60.7	204.2	0.00
09	6.3	68.8	81.7	61.1	240.0	0.00
10	5.7	58.0	81.5	57.8	199.8	0.00
11	5.9	49.9	79.8	61.0	206.6	0.00
12	6.6	15.5	81.1	57.4	233.5	0.00
13	4.9	95.8	80.2	65.8	186.5	0.00
14	3.9	99.8	77.8	84.1	158.0	1.95
15	3.7	24.4	79.7	87.0	136.3	0.87
16	3.4	21.1	80.1	89.3	129.3	1.06
17	2.9	21.1	77.7	96.8	79.9	0.47
18	3.2	21.1	79.4	94.5	96.7	0.00
19	4.3	21.1	81.3	88.0	167.7	0.00
20	5.3	21.1	81.7	75.5	251.1	0.00
21	4.8	17.9	82.5	68.3	173.0	0.00
22	4.9	0.0	81.8	66.4	210.2	0.00
23	7.1	226.5	81.2	61.5	208.3	0.00
24	7.4	62.5	80.8	68.7	220.6	0.01
25	7.4	124.3	81.2	67.1	208.5	0.01
26	4.8	103.8	80.4	66.1	205.7	0.00
27	5.5	103.9	78.6	67.1	249.4	0.00
28	4.8	97.5	79.5	64.8	227.3	0.00
29	4.1	87.3	79.2	64.0	189.8	0.00
30	4.6	83.9	78.9	70.3	237.8	0.00
31	4.4	83.8	78.4	74.3	140.6	0.00
Sum	162.2		2504.3	2163.1	6176.8	4.37
Average	5.2	65.4	80.8	69.8	199.3	0.14
Maximum Date	7.4 25		83.0 5	96.8 17	279.9 6	1.95 14
Minimum Date	2.9 17		77.7 17	57.4 12	79.9 17	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Log Date: 2002/11

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	4.8	83.7	80.0	65.0	220.6	0.00
02	4.3	83.7	79.1	71.6	128.2	0.01
03	5.4	83.7	79.6	68.2	197.5	0.00
04	4.9	83.7	78.5	68.0	157.5	0.00
05	4.6	83.7	78.0	73.1	169.4	0.00
06	4.8	83.7	78.0	71.4	234.4	0.00
07	3.9	83.7	77.4	73.5	202.7	0.00
08	4.3	83.7	80.5	70.1	231.5	0.00
09	4.1	83.7	79.3	70.9	228.4	0.00
10	5.0	82.7	78.7	67.0	200.4	0.00
11	6.9	79.3	78.4	74.3	146.9	0.00
12	5.0	74.8	77.2	79.5	113.6	0.00
13	4.2	122.0	79.2	72.3	150.5	0.01
14	6.2	160.6	78.5	70.5	160.7	0.00
15	6.7	253.5	77.4	77.3	138.7	0.00
16	4.6	91.9	78.2	74.5	142.1	0.00
17	4.6	84.9	80.1	66.6	172.8	0.00
18	6.1	84.7	78.4	69.9	203.6	0.00
19	5.8	84.7	77.6	67.7	206.9	0.00
20	5.4	178.2	78.4	64.1	183.2	0.00
21	4.1	183.0	77.8	72.7	170.3	0.00
22	4.4	196.4	77.9	69.7	181.9	0.00
23	4.1	200.9	78.7	69.0	212.3	0.00
24	4.1	197.7	76.1	72.4	165.6	0.00
25	4.5	189.1	79.4	83.3	169.2	0.00
26	3.3	178.9	79.0	86.0	175.8	0.18
27	3.7	178.9	77.1	89.6	146.5	0.34
28	5.9	178.8	76.5	89.3	178.5	0.09
29	7.3	172.9	76.2	71.5	188.7	0.00
30	5.0	255.5	74.5	69.4	215.6	0.00
Sum	147.8		2345.7	2187.9	5394.2	0.63
Average	4.9	125.3	78.2	72.9	179.8	0.02
Maximum Date	7.3 29		80.5 8	89.6 27	234.4 6	0.34 27
Minimum Date	3.3 26		74.5 30	64.1 20	113.6 12	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

Masa Fujioka

Log Date: 2002/12

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	5.1	250.4	74.8	73.0	181.2	0.00
02	5.8	246.2	75.5	78.1	175.3	0.00
03	7.7	46.3	75.9	58.8	217.2	0.01
04	4.7	261.7	74.9	66.3	211.7	0.00
05	4.2	261.7	74.6	70.0	200.3	0.00
06	7.1	260.9	74.1	75.4	168.6	0.00
07	12.0	127.3	74.3	58.6	212.0	0.00
08	6.6	124.5	75.3	56.4	201.2	0.00
09	5.7	28.9	77.1	60.8	167.9	0.00
10	7.5	34.6	78.3	60.1	180.2	0.00
11	5.1	175.9	78.7	73.6	169.3	0.01
12	3.9	175.9	77.7	75.6	136.7	0.00
13	3.8	175.8	75.9	72.5	210.4	0.00
14	3.5	175.9	75.3	70.4	201.7	0.00
15	5.3	175.9	74.4	73.0	202.8	0.00
16	5.0	176.0	78.4	66.1	146.7	0.00
17	6.1	167.5	78.4	68.0	141.6	0.02
18	7.5	112.6	76.6	64.3	110.6	0.00
19	----	----	----	----	----	----
20	----	----	----	----	----	----
21	----	----	----	----	----	----
22	----	----	----	----	----	----
23	----	----	----	----	----	----
24	----	----	----	----	----	----
25	----	----	----	----	----	----
26	----	----	----	----	----	----
27	----	----	----	----	----	----
28	----	----	----	----	----	----
29	----	----	----	----	----	----
30	----	----	----	----	----	----
31	----	----	----	----	----	----
Sum	106.6		1370.3	1221.0	3235.5	0.04
Average	5.9	178.9	76.1	67.8	179.7	0.00
Maximum Date	12.0 7		78.7 11	78.1 2	217.2 3	0.02 17
Minimum Date	3.5 14		74.1 6	56.4 8	110.6 18	0.00 1
Standard # above	----	----	----	----	----	----
Valid	58%	58%	58%	58%	58%	58%

PVT

Log Date: 2002/12

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	SR (W/m2)	RH (%)	RN (inch)
01	----	----	----	----	----	----
02	----	----	----	----	----	----
03	----	----	----	----	----	----
04	----	----	----	----	----	----
05	----	----	----	----	----	----
06	----	----	----	----	----	----
07	----	----	----	----	----	----
08	----	----	----	----	----	----
09	----	----	----	----	----	----
10	----	----	----	----	----	----
11	----	----	----	----	----	----
12	----	----	----	----	----	----
13	----	----	----	----	----	----
14	----	----	----	----	----	----
15	----	----	----	----	----	----
16	5.2	176.0	79.1	176.0	64.8	0.00
17	6.1	167.5	78.4	141.6	68.0	0.02
18	6.9	95.6	78.8	185.8	61.3	0.00
19	4.6	209.8	77.5	202.6	71.0	0.00
20	3.9	207.6	75.0	197.6	79.8	0.00
21	4.8	207.6	75.1	205.1	76.0	0.00
22	5.1	206.1	77.0	188.6	70.6	0.00
23	6.4	89.2	80.4	201.4	68.3	0.00
24	5.7	357.0	79.4	214.2	62.1	0.00
25	5.3	296.3	77.7	198.7	67.4	0.00
26	5.0	82.0	77.0	135.2	72.2	0.00
27	9.7	260.9	78.1	156.8	60.1	0.00
28	8.5	168.1	78.5	201.5	65.4	0.00
29	5.0	129.7	77.4	118.4	71.8	0.01
30	5.3	102.3	78.1	212.4	66.3	0.00
31	4.4	101.0	73.8	207.5	80.6	0.00
Sum	91.9		1241.2	2943.4	1105.8	0.03
Average	5.7	158.8	77.6	184.0	69.1	0.00
Maximum Date	9.7 27		80.4 23	214.2 24	80.6 31	0.02 17
Minimum Date	3.9 20		73.8 31	118.4 29	60.1 27	0.00 16
Standard # above	----	----	----	----	----	----
Valid	52%	52%	52%	52%	52%	52%

PVT

Log Date: 2003/01

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	SR (W/m2)	RH (%)	RN (inch)
01	4.6	98.1	74.7	201.3	82.3	0.00
02	3.5	96.1	76.0	120.7	82.7	0.00
03	4.3	80.9	76.5	194.5	80.9	0.04
04	8.0	358.0	78.3	135.3	76.8	0.05
05	7.9	308.3	73.1	208.0	62.4	0.00
06	8.3	317.0	71.1	210.5	54.7	0.00
07	4.2	17.7	70.3	186.8	65.4	0.00
08	4.3	17.7	71.9	215.4	68.2	0.00
09	4.5	17.7	71.7	214.9	70.4	0.00
10	6.0	21.3	73.3	191.8	74.3	0.00
11	9.4	149.2	73.1	199.2	67.9	0.00
12	5.6	85.7	72.9	189.7	58.3	0.00
13	4.0	85.7	73.6	205.5	70.3	0.00
14	5.9	236.4	75.9	172.9	87.4	0.25
15	11.7	49.7	74.1	121.1	78.2	0.19
16	6.9	63.2	69.9	211.2	56.5	0.01
17	5.7	62.1	72.3	183.0	66.9	0.00
18	6.5	27.4	76.7	166.0	69.5	0.04
19	6.2	273.4	75.5	128.7	81.9	0.06
20	10.0	177.1	73.1	200.3	72.8	0.19
21	5.1	233.3	69.7	215.5	62.2	0.00
22	5.4	232.7	72.5	169.8	67.9	0.00
23	6.8	245.3	77.6	206.1	78.5	0.02
24	7.0	46.1	75.6	110.2	90.9	0.35
25	3.5	55.9	72.8	223.8	86.9	0.00
26	4.2	62.5	73.8	207.7	79.9	0.00
27	4.4	62.5	76.0	231.5	84.4	0.00
28	3.5	62.5	75.3	195.2	86.9	0.00
29	5.8	62.5	74.2	96.4	89.5	0.08
30	8.6	44.7	74.0	178.8	79.3	0.02
31	7.1	93.8	76.0	186.2	75.7	0.00
Sum	188.8		2291.4	5678.1	2310.0	1.30
Average	6.1	51.9	73.9	183.2	74.5	0.04
Maximum Date	11.7 15		78.3 4	231.5 27	90.9 24	0.35 24
Minimum Date	3.5 2		69.7 21	96.4 29	54.7 6	0.00 1
Standard # above	-----	-----	-----	-----	-----	-----
Valid	100%	100%	100%	100%	100%	100%

PVT

Log Date: 2003/02

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	SR (W/m2)	RH (%)	RN (inch)
01	4.5	90.1	76.6	195.0	72.5	0.00
02	4.9	86.8	75.4	201.3	69.5	0.00
03	4.3	86.8	73.3	199.1	74.1	0.00
04	4.6	65.0	75.1	205.9	70.3	0.00
05	4.5	36.3	74.7	221.3	76.2	0.00
06	5.8	10.6	73.4	113.6	82.5	0.00
07	5.8	248.1	70.1	235.2	62.4	0.00
08	4.5	237.1	69.4	238.6	68.6	0.00
09	4.6	237.1	71.9	241.8	66.6	0.00
10	7.0	167.3	74.2	241.2	59.5	0.00
11	4.9	108.9	73.8	150.7	70.4	0.00
12	5.5	197.7	74.5	106.2	68.2	0.00
13	4.3	214.5	73.6	101.8	72.9	0.08
14	9.5	269.0	69.5	82.5	80.3	0.32
15	10.7	25.8	72.1	256.1	65.2	0.00
16	6.4	223.9	74.3	256.9	58.8	0.00
17	8.0	153.7	74.4	210.1	59.0	0.00
18	5.6	98.0	75.5	242.5	58.7	0.00
19	5.4	146.6	75.9	206.6	61.5	0.00
20	5.2	116.9	75.1	148.3	75.1	0.00
21	7.7	108.2	76.1	233.2	71.6	0.00
22	6.2	116.8	78.8	246.6	67.1	0.00
23	6.0	43.9	78.7	201.5	65.4	0.00
24	6.3	275.5	78.4	251.2	62.8	0.00
25	4.4	245.4	75.7	162.3	70.5	0.05
26	5.4	239.0	77.4	244.4	68.7	0.00
27	4.8	239.3	76.2	207.6	71.0	0.00
28	6.1	216.8	77.7	278.8	65.2	0.00
Sum	162.9		2092.3	5680.1	1914.4	0.45
Average	5.8	160.7	74.7	202.9	68.4	0.02
Maximum Date	10.7 15		78.8 22	278.8 28	82.5 6	0.32 14
Minimum Date	4.3 13		69.4 8	82.5 14	58.7 18	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT

Log Date: 2003/03

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	SR (W/m2)	RH (%)	RN (inch)
01	7.1	105.4	78.6	270.0	60.2	0.00
02	5.8	77.5	77.3	228.3	64.2	0.00
03	4.6	60.1	75.3	224.4	65.8	0.00
04	5.7	319.4	76.1	284.9	61.6	0.00
05	5.9	240.1	76.7	264.9	67.9	0.00
06	5.6	257.5	75.9	184.9	81.8	0.42
07	6.1	253.7	76.6	258.6	85.9	0.00
08	5.8	253.8	77.8	207.1	75.8	0.00
09	5.3	253.8	76.7	214.8	84.9	0.00
10	5.8	253.7	76.7	283.2	80.3	0.00
11	5.6	253.7	76.8	277.7	84.1	0.00
12	6.2	253.6	75.8	247.7	81.7	0.00
13	5.3	253.7	76.9	291.6	77.6	0.00
14	6.2	229.6	75.9	291.7	81.1	0.00
15	5.7	146.2	75.9	181.2	81.3	0.00
16	5.5	146.2	77.1	133.9	83.5	0.06
17	6.1	218.0	78.3	228.9	81.9	0.00
18	7.6	215.7	80.3	297.3	63.7	0.00
19	7.4	43.2	79.2	237.0	60.0	0.00
20	6.3	357.3	79.1	210.3	62.2	0.00
21	6.6	86.4	79.4	276.2	58.7	0.00
22	5.2	302.7	79.7	243.4	61.1	0.00
23	6.3	256.0	78.4	216.4	65.9	0.00
24	5.8	259.4	78.9	241.0	65.8	0.00
25	5.4	244.4	78.4	236.5	71.3	0.00
26	5.0	216.9	78.0	244.9	74.9	0.00
27	6.5	234.0	75.3	122.4	86.9	1.16
28	5.6	218.1	76.3	303.6	72.2	0.00
29	5.4	218.0	76.1	237.8	76.3	0.05
30	6.6	7.2	76.3	159.5	86.7	0.62
31	7.0	55.3	79.4	267.2	79.0	0.00
Sum	185.1		2399.2	7367.2	2284.4	2.31
Average	6.0	244.3	77.4	237.7	73.7	0.07
Maximum Date	7.6 18		80.3 18	303.6 28	86.9 27	1.16 27
Minimum Date	4.6 3		75.3 27	122.4 27	58.7 21	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT

Log Date: 2003/04

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	SR (W/m2)	RH (%)	RN (inch)
01	4.8	79.9	78.6	215.8	83.8	0.04
02	4.8	86.1	77.0	132.3	79.8	0.01
03	5.4	86.0	75.9	128.8	81.5	0.02
04	6.0	152.9	75.2	208.1	86.5	0.37
05	5.5	160.5	76.3	170.8	84.8	0.42
06	5.4	160.5	79.4	286.6	83.2	0.00
07	5.3	160.5	78.6	221.5	81.3	0.02
08	6.5	160.5	78.3	284.6	74.8	0.00
09	5.0	160.5	77.7	144.4	74.1	0.00
10	5.0	147.1	78.4	233.7	73.2	0.23
11	7.7	231.4	79.5	292.9	66.8	0.00
12	9.2	201.1	79.5	250.2	68.4	0.00
13	6.7	51.4	79.1	307.4	60.5	0.00
14	6.3	250.3	78.4	244.5	60.1	0.00
15	7.6	118.2	78.0	297.1	57.3	0.00
16	8.6	122.0	76.5	296.6	62.1	0.00
17	6.9	285.6	77.4	179.4	65.0	0.00
18	10.5	145.6	79.1	286.6	58.7	0.00
19	7.3	22.2	78.8	339.3	60.3	0.00
20	8.7	44.0	77.9	284.3	63.5	0.00
21	8.4	256.2	77.7	263.0	61.7	0.00
22	10.0	280.0	77.7	293.7	61.3	0.02
23	6.5	23.5	78.0	198.9	58.6	0.00
24	5.8	341.5	78.4	296.6	62.5	0.00
25	5.9	295.5	78.4	233.5	63.8	0.00
26	4.9	258.5	78.3	248.8	62.5	0.00
27	4.4	254.4	77.9	220.1	68.6	0.00
28	4.4	254.4	76.7	332.6	74.2	0.00
29	5.0	254.4	77.9	341.1	70.6	0.00
30	5.3	296.3	78.7	325.1	61.1	0.00
Sum	194.0		2339.2	7558.4	2070.3	1.13
Average	6.5	188.0	78.0	251.9	69.0	0.04
Maximum Date	10.5 18		79.5 11	341.1 29	86.5 4	0.42 5
Minimum Date	4.4 28		75.2 4	128.8 3	57.3 15	0.00 6
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT

Log Date: 2003/05

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	SR (W/m2)	RH (%)	RN (inch)
01	4.5	16.0	78.8	292.6	69.4	0.00
02	3.5	290.2	77.1	127.3	77.7	0.00
03	6.2	272.9	81.5	323.4	62.3	0.00
04	4.5	297.8	80.5	250.7	66.6	0.00
05	4.1	287.3	78.3	163.1	73.5	0.00
06	5.0	81.6	80.8	274.9	68.2	0.00
07	5.3	63.3	79.5	190.4	72.2	0.05
08	5.8	314.0	79.8	231.9	72.7	0.00
09	6.5	346.7	81.6	296.5	63.8	0.00
10	6.6	182.1	80.4	248.0	63.9	0.00
11	6.9	95.7	80.1	223.3	60.5	0.00
12	6.1	175.7	78.2	188.0	65.9	0.00
13	5.9	75.2	79.8	213.5	65.0	0.00
14	6.2	108.6	80.3	276.3	61.4	0.00
15	8.8	73.3	81.2	296.9	62.3	0.00
16	5.3	108.6	80.6	278.7	59.9	0.01
17	5.2	93.2	81.1	325.9	61.5	0.00
18	6.1	48.5	80.9	318.8	58.4	0.00
19	7.3	18.3	80.8	271.9	59.5	0.00
20	5.6	14.2	80.5	267.4	59.1	0.00
21	6.4	214.6	79.4	246.3	59.4	0.00
22	5.5	73.3	79.8	225.4	62.6	0.00
23	5.0	2.5	80.6	246.7	65.7	0.00
24	4.5	221.5	79.6	205.1	67.1	0.00
25	6.0	236.0	80.7	329.1	69.4	0.00
26	5.0	272.3	79.5	326.1	75.9	0.00
27	4.6	272.3	79.3	320.8	76.1	0.00
28	4.3	265.0	79.0	292.9	70.0	0.00
29	5.4	256.3	79.8	311.2	70.5	0.00
30	4.6	256.1	80.0	266.5	68.5	0.00
31	4.1	256.1	80.9	322.8	68.1	0.00
Sum	171.0		2480.2	8152.9	2057.1	0.06
Average	5.5	323.0	80.0	263.0	66.4	0.00
Maximum Date	8.8 15		81.6 9	329.1 25	77.7 2	0.05 7
Minimum Date	3.5 2		77.1 2	127.3 2	58.4 18	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT

Log Date: 2003/06

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	SR (W/m2)	RH (%)	RN (inch)
01	4.0	256.1	80.9	304.7	70.4	0.00
02	5.0	256.1	79.6	316.7	75.7	0.00
03	5.3	255.6	79.6	326.4	76.3	0.00
04	3.8	255.2	80.7	237.4	76.8	0.00
05	3.8	255.1	78.8	204.1	85.3	0.07
06	4.1	255.2	76.5	143.6	92.4	1.37
07	4.2	255.2	79.0	262.0	83.0	0.00
08	3.6	233.6	78.3	183.0	88.1	0.97
09	3.8	196.8	79.3	218.6	80.9	0.00
10	5.3	193.3	82.1	339.4	66.2	0.00
11	5.3	268.7	80.6	178.9	61.5	0.00
12	9.0	138.2	81.5	297.9	59.8	0.00
13	6.3	124.7	80.1	203.5	67.3	0.00
14	6.4	83.7	79.6	191.8	68.9	0.00
15	6.1	36.4	79.8	184.4	69.4	0.00
16	5.9	36.5	80.3	218.0	71.9	0.11
17	6.0	24.7	81.4	266.3	64.4	0.00
18	5.8	0.0	81.4	294.8	67.8	0.01
19	6.7	226.9	81.4	285.7	70.2	0.01
20	5.3	245.3	82.3	267.4	64.5	0.00
21	6.7	37.1	82.3	292.7	64.1	0.00
22	6.3	350.9	83.5	327.9	60.4	0.00
23	6.0	86.5	82.1	267.2	64.8	0.00
24	5.9	42.5	82.0	212.4	69.0	0.00
25	7.0	147.5	82.9	310.4	64.1	0.00
26	6.0	112.8	82.6	272.6	64.4	0.00
27	5.7	80.1	80.9	181.3	66.4	0.02
28	5.5	85.8	79.8	200.6	69.1	0.05
29	7.0	79.8	80.4	212.5	65.1	0.00
30	7.3	336.6	82.0	317.4	60.2	0.00
Sum	169.2		2421.5	7519.8	2108.3	2.61
Average	5.6	231.8	80.7	250.7	70.3	0.09
Maximum Date	9.0 12		83.5 22	339.4 10	92.4 6	1.37 6
Minimum Date	3.6 8		76.5 6	143.6 6	59.8 12	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT

Log Date: 2003/07

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	SR (W/m2)	RH (%)	RN (inch)
01	6.0	181.2	82.0	280.5	57.5	0.01
02	6.2	99.9	81.9	303.9	58.3	0.03
03	6.3	26.9	80.4	262.3	60.0	0.00
04	5.7	84.9	80.4	286.3	64.4	0.00
05	5.5	74.6	79.8	198.6	70.1	0.17
06	5.9	49.7	82.4	322.1	61.1	0.00
07	7.0	277.1	83.8	330.2	58.0	0.00
08	7.7	0.6	82.8	327.4	57.7	0.00
09	8.0	346.6	82.9	324.6	56.2	0.00
10	6.0	55.9	82.4	301.4	58.2	0.00
11	5.6	28.1	80.9	225.7	68.8	0.00
12	6.3	344.0	83.2	272.9	63.6	0.00
13	5.7	105.0	83.6	277.3	65.3	0.00
14	5.9	315.7	84.5	318.2	61.1	0.00
15	5.6	283.8	84.1	221.1	65.0	0.00
16	5.3	198.0	83.7	255.5	67.3	0.00
17	5.1	228.6	83.3	226.3	62.8	0.00
18	5.7	202.0	83.2	300.1	64.4	0.00
19	6.6	241.1	84.3	286.6	65.6	0.00
20	6.3	151.2	85.9	329.0	64.7	0.00
21	6.1	115.1	83.7	269.7	60.5	0.00
22	5.0	80.9	81.8	219.8	63.3	0.00
23	5.9	62.5	81.5	260.5	68.4	0.00
24	5.4	44.5	82.7	179.1	71.1	0.00
25	5.9	196.3	83.4	178.3	79.4	0.00
26	4.7	164.8	80.1	93.3	90.7	0.30
27	5.4	212.7	83.6	277.7	83.4	0.02
28	4.7	263.5	82.7	186.9	86.0	0.12
29	6.2	234.8	84.1	285.9	63.7	0.00
30	6.1	157.2	83.4	319.6	61.4	0.00
31	6.2	199.0	83.0	292.2	61.8	0.00
Sum	183.8		2565.4	8213.1	2039.9	0.65
Average	5.9	132.8	82.8	264.9	65.8	0.02
Maximum Date	8.0 9		85.9 20	330.2 7	90.7 26	0.30 26
Minimum Date	4.7 28		79.8 5	93.3 26	56.2 9	0.00 3
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT

Log Date: 2003/08

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	SR (W/m2)	RH (%)	RN (inch)
01	6.4	102.5	83.6	328.1	57.8	0.00
02	6.3	128.9	83.3	320.6	59.1	0.00
03	6.5	60.3	82.3	184.5	64.4	0.00
04	5.0	190.4	82.3	323.3	67.5	0.00
05	5.2	190.6	83.3	323.3	67.1	0.00
06	5.7	128.3	84.6	300.0	68.8	0.02
07	6.3	280.8	85.4	312.6	61.5	0.00
08	6.1	247.0	83.7	280.6	60.0	0.00
09	6.8	338.6	84.2	316.9	58.3	0.00
10	6.2	152.7	83.7	260.3	60.3	0.00
11	7.2	173.2	84.2	311.5	63.1	0.00
12	6.8	168.6	84.8	334.2	60.5	0.00
13	5.3	260.2	84.8	265.5	63.2	0.00
14	6.1	206.0	84.2	208.1	64.0	0.00
15	7.1	41.9	84.0	282.9	57.0	0.00
16	6.7	168.8	85.0	279.1	62.7	0.00
17	7.3	319.2	84.2	191.6	66.0	0.00
18	6.6	216.7	84.6	300.0	59.1	0.00
19	6.7	57.7	85.1	319.3	59.1	0.00
20	6.0	32.9	84.6	184.1	64.3	0.00
21	5.4	220.6	84.6	196.3	63.4	0.00
22	5.8	226.0	84.5	284.7	64.9	0.00
23	5.4	177.3	82.4	206.9	68.2	0.00
24	5.8	127.1	82.9	233.9	65.2	0.00
25	5.2	80.8	82.2	231.7	66.0	0.01
26	5.5	76.6	82.1	260.7	64.8	0.00
27	6.5	61.1	82.4	245.7	61.7	0.00
28	5.0	50.8	81.5	232.5	65.6	0.00
29	4.1	330.7	78.6	141.4	72.6	0.27
30	5.9	278.3	83.9	254.8	66.6	0.00
31	5.6	38.3	85.3	296.0	64.0	0.00
Sum	186.4		2592.3	8211.3	1966.9	0.30
Average	6.0	145.0	83.6	264.9	63.4	0.01
Maximum Date	7.3 17		85.4 7	334.2 12	72.6 29	0.27 29
Minimum Date	4.1 29		78.6 29	141.4 29	57.0 15	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT

Log Date: 2003/09

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	SR (W/m2)	RH (%)	RN (inch)
01	6.5	265.8	84.5	211.1	66.7	0.00
02	6.9	143.5	84.4	306.7	60.3	0.00
03	6.4	115.5	83.7	304.1	58.5	0.00
04	6.1	157.1	83.6	316.3	58.4	0.00
05	5.6	252.7	83.4	298.8	60.3	0.01
06	6.3	163.0	84.5	284.1	58.9	0.00
07	6.3	190.8	84.1	285.0	61.5	0.00
08	6.4	238.2	84.1	315.4	57.7	0.00
09	7.2	225.3	82.6	277.1	63.9	0.00
10	4.0	121.9	79.4	143.5	71.4	0.02
11	3.6	105.3	80.4	139.9	71.6	0.00
12	4.5	98.0	77.8	128.0	83.6	0.55
13	5.6	103.7	81.2	231.8	73.9	0.00
14	4.6	206.9	82.6	262.3	71.4	0.00
15	5.2	98.8	81.5	163.1	71.1	0.00
16	5.4	62.4	82.3	242.7	67.0	0.00
17	4.5	44.2	81.0	174.0	72.9	0.07
18	5.0	44.2	81.9	185.7	69.7	0.01
19	4.9	41.8	81.0	173.7	67.4	0.00
20	4.3	239.5	79.2	116.1	69.8	0.00
21	4.0	161.3	80.8	286.4	74.8	0.00
22	3.5	69.0	81.4	252.1	82.9	0.08
23	4.5	59.9	83.0	262.9	78.3	0.00
24	5.5	352.8	83.2	224.0	78.7	0.00
25	3.6	294.7	82.6	203.2	83.0	0.03
26	3.8	9.0	80.9	163.6	82.7	0.00
27	4.7	69.5	80.5	164.6	78.3	0.00
28	4.7	27.5	81.0	233.5	70.5	0.00
29	4.0	326.7	81.5	239.7	72.6	0.00
30	4.1	288.2	81.6	243.4	75.9	0.00
Sum	151.7		2459.7	6832.8	2113.9	0.77
Average	5.1	100.2	82.0	227.8	70.5	0.03
Maximum Date	7.2 9		84.5 1	316.3 4	83.6 12	0.55 12
Minimum Date	3.5 22		77.8 12	116.1 20	57.7 8	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT

Log Date: 2003/10

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	SR (W/m2)	RH (%)	RN (inch)
01	4.1	288.1	83.8	269.0	72.4	0.00
02	3.5	288.2	82.6	279.1	79.1	0.00
03	4.1	288.1	79.8	126.9	88.4	0.10
04	3.4	288.2	80.2	106.2	85.0	0.00
05	5.1	255.8	83.9	271.1	62.5	0.00
06	5.8	191.8	84.7	259.9	65.1	0.00
07	6.3	173.6	82.8	215.7	68.6	0.01
08	6.3	251.6	82.4	201.4	70.2	0.07
09	6.6	259.9	83.9	263.5	66.4	0.00
10	6.9	257.2	84.7	241.9	63.3	0.00
11	4.8	315.7	82.8	194.0	72.9	0.00
12	5.5	331.2	83.0	220.7	72.3	0.01
13	6.0	325.7	84.0	273.9	62.9	0.00
14	7.7	272.0	83.2	263.7	63.7	0.00
15	6.5	269.8	81.2	183.6	68.5	0.00
16	6.3	315.6	82.1	233.5	60.4	0.00
17	5.9	216.1	81.2	149.2	69.7	0.02
18	3.9	47.6	79.4	201.0	70.9	0.00
19	4.1	47.6	78.3	212.4	73.9	0.00
20	5.1	43.2	79.7	258.2	70.8	0.00
21	4.0	27.6	79.7	255.1	73.7	0.00
22	4.3	358.7	80.5	253.7	74.1	0.00
23	4.5	325.7	81.4	239.6	78.1	0.00
24	4.2	171.8	81.8	177.9	83.2	0.00
25	5.2	27.7	82.8	219.5	79.7	0.00
26	4.3	294.9	83.5	237.4	77.8	0.00
27	4.7	321.2	83.2	228.7	76.5	0.03
28	4.6	1.2	81.9	143.4	77.5	0.00
29	5.0	0.0	82.0	131.5	75.1	0.00
30	3.5	0.0	80.7	101.8	76.8	0.00
31	3.4	0.0	79.6	123.1	79.2	0.00
Sum	155.6		2540.7	6536.4	2258.7	0.24
Average	5.0	312.1	82.0	210.9	72.9	0.01
Maximum Date	7.7 14		84.7 6	279.1 2	88.4 3	0.10 3
Minimum Date	3.4 4		78.3 19	101.8 30	60.4 16	0.00 1
Standard # above	-----	-----	-----	-----	-----	-----
Valid	100%	100%	100%	100%	100%	100%

PVT

Log Date: 2003/11

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	SR (W/m2)	RH (%)	RN (inch)
01	4.1	355.1	79.7	129.8	76.7	0.01
02	5.3	320.6	81.4	205.0	66.8	0.00
03	6.8	85.9	81.6	193.9	65.7	0.00
04	8.4	57.6	82.2	235.3	62.9	0.00
05	5.1	220.6	80.7	180.8	68.0	0.00
06	4.0	220.1	79.2	105.7	75.2	0.03
07	6.9	87.3	81.9	231.4	68.2	0.00
08	5.0	91.9	81.7	183.1	61.5	0.00
09	6.8	215.1	82.4	221.9	60.4	0.00
10	9.4	276.9	81.6	178.1	65.5	0.00
11	7.0	198.5	81.3	177.4	61.5	0.00
12	8.7	201.3	80.7	191.5	62.5	0.01
13	6.5	95.7	78.7	151.2	67.2	0.00
14	7.3	179.4	80.4	221.1	63.4	0.00
15	8.4	173.2	79.9	185.5	62.5	0.00
16	8.7	152.6	80.6	191.9	64.0	0.00
17	5.9	348.8	80.8	163.0	67.2	0.00
18	6.9	348.7	80.4	160.3	68.1	0.00
19	10.9	347.8	75.9	219.1	64.4	0.01
20	9.1	204.3	74.6	174.6	61.3	0.00
21	8.9	141.0	76.0	197.8	64.0	0.00
22	6.9	179.7	76.3	198.8	68.9	0.00
23	4.5	67.2	75.7	144.4	79.8	0.04
24	4.0	67.2	76.4	208.6	76.6	0.00
25	5.1	66.8	76.2	161.5	87.6	0.62
26	7.2	50.8	77.2	202.3	76.5	0.00
27	3.6	37.7	75.8	210.5	81.9	0.00
28	4.6	37.7	78.1	146.4	76.3	0.00
29	3.8	37.7	80.1	107.2	81.3	0.04
30	3.1	19.8	77.6	98.9	91.3	0.57
Sum	193.1		2374.8	5376.8	2097.0	1.33
Average	6.4	84.1	79.2	179.2	69.9	0.04
Maximum Date	10.9 19		82.4 9	235.3 4	91.3 30	0.62 25
Minimum Date	3.1 30		74.6 20	98.9 30	60.4 9	0.00 2
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT

Log Date: 2003/12

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	SR (W/m2)	RH (%)	RN (inch)
01	4.9	302.1	75.4	53.6	95.5	1.56
02	8.5	177.8	75.0	197.4	78.8	0.00
03	4.4	145.5	75.9	180.3	79.3	0.00
04	5.3	144.8	79.3	160.5	75.3	0.00
05	3.9	64.3	78.9	128.2	87.5	0.08
06	3.8	61.8	78.0	136.9	91.2	0.10
07	3.7	61.8	76.6	112.2	90.7	0.74
08	6.6	234.0	78.0	171.9	73.4	0.00
09	13.0	284.8	78.8	172.7	71.6	0.00
10	11.2	41.0	78.8	186.7	73.7	0.01
11	6.6	305.7	78.7	210.1	66.9	0.00
12	4.9	209.3	77.1	169.1	69.9	0.00
13	5.2	289.8	77.2	134.9	69.1	0.00
14	5.1	325.7	78.4	207.8	64.5	0.00
15	6.2	286.3	77.1	171.8	67.5	0.00
16	5.1	231.1	74.5	192.3	74.3	0.00
17	9.3	199.5	73.8	204.6	66.4	0.00
18	6.1	187.7	73.6	125.2	60.3	0.00
19	5.9	182.1	74.9	180.8	62.0	0.00
20	5.9	182.1	74.3	205.1	69.6	0.00
21	6.5	182.1	75.8	194.5	64.4	0.00
22	4.7	182.1	75.3	203.2	75.0	0.00
23	3.8	182.1	76.4	95.4	77.7	0.00
24	4.6	181.1	78.4	171.7	69.6	0.00
25	3.9	178.8	77.2	207.6	76.8	0.00
26	4.1	178.8	75.0	199.8	82.1	0.00
27	4.6	178.5	75.1	158.1	81.1	0.54
28	4.1	356.9	70.3	132.5	82.8	0.99
29	5.1	95.5	75.8	109.3	72.3	0.00
30	3.6	169.6	76.0	74.9	85.6	0.25
31	4.7	164.5	75.4	70.2	87.2	0.76
Sum	175.3		2365.2	4919.2	2342.2	5.03
Average	5.7	189.1	76.3	158.7	75.6	0.16
Maximum Date	13.0 9		79.3 4	210.1 11	95.5 1	1.56 1
Minimum Date	3.6 30		70.3 28	53.6 1	60.3 18	0.00 2
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT Landfill

Log Date: 2004/01

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	6.6	12.8	74.5	96.5	58.6	0.99
02	5.3	343.9	71.1	98.9	30.5	3.61
03	3.2	187.4	74.5	91.7	185.8	0.26
04	6.6	156.9	74.5	76.0	212.7	0.00
05	4.2	103.0	72.0	72.7	211.5	0.00
06	4.4	103.0	73.2	76.4	213.1	0.00
07	5.8	103.0	71.3	77.7	209.1	0.00
08	3.9	103.0	74.0	83.0	207.6	0.00
09	5.7	103.1	76.7	75.4	197.4	0.00
10	3.5	103.0	76.2	74.5	215.5	0.00
11	5.6	84.8	76.9	67.2	191.7	0.00
12	6.7	89.9	76.8	86.0	173.6	0.00
13	4.5	90.0	74.9	83.6	208.4	0.00
14	9.7	353.0	77.2	84.9	107.8	0.42
15	6.8	23.5	74.6	70.2	208.6	0.00
16	4.4	21.1	72.2	81.1	165.5	0.00
17	3.9	21.1	74.1	80.0	198.9	0.00
18	3.8	21.1	76.2	85.8	149.1	0.03
19	3.5	67.5	75.1	93.0	135.6	0.45
20	3.4	102.7	75.1	92.8	134.6	0.14
21	3.1	102.7	72.6	96.9	81.5	0.22
22	5.7	101.5	76.0	85.6	182.5	0.71
23	3.4	249.0	72.8	89.5	91.4	1.05
24	4.1	246.2	73.4	83.6	220.8	0.00
25	5.4	241.4	74.6	82.4	211.3	0.00
26	6.0	285.1	77.1	69.6	185.3	0.00
27	4.2	316.5	78.2	73.6	165.1	0.00
28	5.7	311.9	77.1	72.3	183.5	0.00
29	8.2	341.9	77.6	64.7	210.0	0.00
30	5.5	53.1	77.5	70.8	221.3	0.00
31	5.8	261.1	77.8	70.6	205.4	0.00
Sum	158.6		2325.9	2507.0	5373.5	7.88
Average	5.1	59.8	75.0	80.9	173.3	0.25
Maximum Date	9.7 14		78.2 27	98.9 2	221.3 30	3.61 2
Minimum Date	3.1 21		71.1 2	64.7 29	30.5 2	0.00 4
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT Landfill

Log Date: 2004/02

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	5.1	249.1	76.8	71.0	183.4	0.00
02	5.9	339.2	76.6	68.9	192.7	0.00
03	5.2	353.6	76.7	74.4	237.8	0.00
04	4.6	353.7	75.3	80.9	144.6	0.34
05	5.4	346.0	77.2	74.4	151.8	0.00
06	5.9	301.3	79.1	70.3	218.0	0.00
07	4.8	66.1	76.3	83.5	165.7	0.01
08	4.3	24.2	75.9	88.1	239.9	0.00
09	4.7	24.0	77.4	88.4	219.6	0.00
10	4.4	24.0	79.0	86.9	245.8	0.00
11	5.1	24.0	76.0	85.1	208.6	0.00
12	5.0	24.0	76.1	75.0	195.2	0.00
13	4.5	25.7	76.1	79.1	237.9	0.00
14	6.2	45.8	78.9	83.5	190.0	0.00
15	8.3	47.2	77.7	81.6	174.1	0.00
16	7.2	258.1	75.1	64.0	222.3	0.00
17	5.5	253.7	77.8	74.8	239.6	0.00
18	4.3	247.7	78.8	80.9	256.4	0.00
19	4.5	247.6	77.2	82.1	190.0	0.00
20	5.1	247.7	77.0	77.6	177.2	0.00
21	4.8	245.1	78.8	71.1	225.4	0.00
22	4.5	259.3	78.0	74.0	242.0	0.00
23	4.9	246.6	79.1	76.0	168.1	0.00
24	5.1	206.4	78.6	72.1	164.4	0.00
25	7.0	93.6	79.1	67.3	115.2	0.00
26	5.8	143.3	76.0	83.0	82.8	1.32
27	7.8	354.6	71.4	92.8	10.4	3.72
28	5.4	355.7	71.5	83.8	198.0	0.25
29	8.9	307.6	74.1	87.6	187.6	1.04
Sum	160.3		2227.8	2278.4	5484.6	6.68
Average	5.5	331.8	76.8	78.6	189.1	0.23
Maximum Date	8.9 29		79.1 23	92.8 27	256.4 18	3.72 27
Minimum Date	4.3 8		71.4 27	64.0 16	10.4 27	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT Landfill

Log Date: 2004/03

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	4.5	279.9	76.4	88.6	203.5	0.02
02	12.7	339.0	73.4	82.0	254.4	0.43
03	8.3	32.9	73.2	80.8	123.1	0.02
04	4.2	40.6	76.0	86.4	91.6	0.00
05	5.5	259.3	79.1	73.4	208.4	0.01
06	5.1	70.2	77.9	72.4	216.6	0.00
07	5.8	44.4	77.8	76.7	179.9	0.04
08	8.4	241.3	73.3	72.8	262.3	0.01
09	8.1	280.4	70.7	60.0	274.8	0.00
10	4.6	256.2	71.4	79.0	169.4	0.02
11	7.1	133.3	76.8	73.0	214.9	0.00
12	5.1	121.4	76.5	81.2	264.7	0.00
13	6.1	108.7	76.1	81.9	137.3	0.12
14	12.4	48.5	73.3	66.8	279.2	0.00
15	10.0	95.7	73.4	60.2	291.0	0.00
16	6.9	229.1	73.1	64.0	267.4	0.00
17	8.8	239.5	72.8	66.3	234.4	0.00
18	5.8	315.4	70.6	70.2	285.7	0.00
19	8.0	21.8	70.8	73.0	294.7	0.00
20	6.6	176.7	73.1	74.0	179.5	0.00
21	6.9	30.9	74.4	75.0	171.1	0.00
22	10.8	67.0	76.5	70.4	207.5	0.00
23	8.3	49.0	75.8	74.4	124.7	0.00
24	7.2	297.3	78.3	68.1	223.5	0.00
25	7.9	7.1	79.4	71.4	232.3	0.01
26	5.8	225.4	77.7	78.1	102.3	0.00
27	4.7	219.4	77.2	83.1	264.7	0.00
28	5.2	195.8	77.8	81.3	219.4	0.00
29	5.4	296.8	78.0	77.3	163.5	0.00
30	6.8	260.1	79.4	71.4	245.8	0.00
31	5.0	72.7	77.5	80.1	259.3	0.00
Sum	218.0		2337.7	2313.1	6646.9	0.68
Average	7.0	340.8	75.4	74.6	214.4	0.02
Maximum Date	12.7 2		79.4 30	88.6 1	294.7 19	0.43 2
Minimum Date	4.2 4		70.6 18	60.0 9	91.6 4	0.00 4
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT Landfill

Log Date: 2004/04

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	5.7	49.1	77.5	78.9	293.7	0.00
02	7.6	268.5	77.5	74.0	205.1	0.00
03	5.3	234.5	76.9	82.5	163.1	0.01
04	4.7	234.6	77.4	79.9	166.4	0.03
05	4.8	234.6	77.4	76.4	267.1	0.00
06	3.6	164.5	78.2	75.0	224.1	0.00
07	4.7	108.5	77.1	78.4	289.5	0.00
08	8.3	91.9	77.1	73.3	279.0	0.00
09	12.8	99.7	76.3	70.5	306.1	0.00
10	9.6	70.3	77.9	66.0	277.4	0.00
11	8.0	145.6	79.1	63.7	273.8	0.00
12	7.2	77.6	79.0	64.5	272.0	0.00
13	7.0	113.2	78.9	69.3	285.5	0.00
14	5.6	102.9	81.0	65.4	266.9	0.00
15	7.4	236.7	79.0	67.4	268.9	0.12
16	8.3	79.3	79.2	64.5	280.2	0.00
17	8.1	56.5	78.0	64.9	259.8	0.00
18	6.3	23.8	77.9	60.1	257.0	0.00
19	6.3	213.7	77.9	66.0	197.3	0.00
20	4.7	161.3	77.1	77.0	176.2	0.15
21	4.2	135.8	76.0	83.4	164.5	0.01
22	5.0	135.3	76.9	80.8	219.8	0.00
23	5.3	75.5	77.4	78.1	212.0	0.00
24	5.4	13.4	78.4	74.9	316.9	0.00
25	5.9	215.0	78.3	70.8	326.2	0.00
26	11.2	52.6	74.0	73.4	325.7	0.00
27	10.6	61.1	73.6	60.9	323.0	0.00
28	6.4	216.4	74.4	60.8	219.9	0.00
29	4.6	38.2	74.4	67.4	331.3	0.00
30	4.5	266.6	76.1	68.8	325.9	0.00
Sum	199.1		2320.2	2137.2	7774.4	0.32
Average	6.6	115.4	77.3	71.2	259.1	0.01
Maximum Date	12.8 9		81.0 14	83.4 21	331.3 29	0.15 20
Minimum Date	3.6 6		73.6 27	60.1 18	163.1 3	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT Landfill

Log Date: 2004/05

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	4.8	193.1	79.8	70.6	321.4	0.00
02	6.5	141.1	81.1	74.0	280.4	0.00
03	6.8	162.7	82.2	67.8	286.2	0.01
04	7.8	48.4	80.4	68.8	323.9	0.01
05	7.3	199.5	80.2	64.8	302.6	0.00
06	6.3	119.4	79.9	67.9	289.2	0.00
07	5.4	156.1	78.0	76.1	323.3	0.00
08	5.4	143.6	77.4	78.6	335.2	0.00
09	5.2	130.3	77.0	77.8	311.8	0.00
10	5.2	130.3	77.3	77.5	234.6	0.00
11	4.9	128.5	79.5	76.5	278.5	0.00
12	5.2	116.5	81.7	76.3	242.9	0.00
13	4.8	71.4	81.8	76.8	298.6	0.68
14	5.1	17.3	80.0	89.9	178.7	0.03
15	4.4	228.1	78.5	92.8	159.0	0.59
16	7.8	223.1	77.7	72.9	318.3	0.00
17	4.2	259.0	76.3	68.1	238.6	0.00
18	4.0	312.7	78.8	75.2	301.6	0.00
19	4.9	59.3	79.9	79.7	310.2	0.00
20	4.4	75.4	82.7	85.9	316.9	0.03
21	4.3	305.2	81.7	84.3	210.3	0.00
22	5.6	67.4	84.7	65.8	327.6	0.00
23	5.7	111.0	82.2	70.6	230.7	0.00
24	6.6	190.3	82.6	62.9	309.9	0.00
25	6.4	139.4	81.2	66.1	233.1	0.00
26	6.8	151.0	81.7	60.5	319.0	0.00
27	9.5	150.5	80.7	66.0	299.2	0.00
28	6.8	257.7	81.9	64.3	306.7	0.00
29	5.3	278.0	82.1	66.0	223.8	0.00
30	6.2	254.5	81.7	70.4	278.2	0.00
31	5.6	51.5	82.3	67.3	246.2	0.00
Sum	179.1		2492.8	2262.5	8636.6	1.35
Average	5.8	144.5	80.4	73.0	278.6	0.04
Maximum Date	9.5 27		84.7 22	92.8 15	335.2 8	0.68 13
Minimum Date	4.0 18		76.3 17	60.5 26	159.0 15	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT Landfill

Log Date: 2004/06

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	6.2	237.1	80.4	67.5	227.1	0.00
02	4.7	137.0	79.5	76.5	146.6	0.00
03	5.9	149.3	82.9	62.1	308.1	0.00
04	5.5	160.2	81.3	68.6	217.1	0.00
05	5.8	228.8	82.2	65.0	281.4	0.00
06	6.3	242.9	81.1	67.1	239.4	0.01
07	5.9	252.7	81.6	66.1	255.3	0.00
08	6.0	227.3	82.8	67.4	268.0	0.00
09	7.3	224.9	82.2	69.2	242.9	0.00
10	6.2	358.2	82.5	69.3	222.5	0.00
11	5.0	305.4	82.1	67.9	235.3	0.00
12	6.0	211.0	82.8	65.2	301.5	0.00
13	6.2	216.3	82.8	63.5	276.5	0.00
14	5.7	86.1	82.6	62.9	241.5	0.00
15	4.7	39.8	80.7	72.4	260.7	0.00
16	3.9	278.9	78.9	81.7	150.1	0.02
17	5.3	235.4	80.2	75.3	182.3	0.00
18	5.6	229.3	81.5	70.2	256.2	0.00
19	5.7	58.5	82.5	67.5	219.3	0.00
20	5.9	86.0	83.2	68.1	264.4	0.00
21	5.7	230.2	83.5	63.9	279.1	0.00
22	6.0	213.8	83.7	69.6	276.0	0.00
23	5.7	145.2	81.9	70.1	230.8	0.00
24	6.8	201.2	82.2	64.3	290.8	0.00
25	7.1	213.6	83.5	61.1	276.3	0.00
26	4.9	12.5	80.1	75.7	137.0	0.23
27	5.6	335.3	80.6	74.8	230.9	0.00
28	5.9	200.8	81.6	71.0	186.8	0.00
29	6.2	152.0	81.8	69.0	205.1	0.00
30	5.9	98.4	81.0	73.1	219.0	0.02
Sum	173.7		2453.8	2066.2	7127.9	0.28
Average	5.8	207.9	81.8	68.9	237.6	0.01
Maximum Date	7.3 9		83.7 22	81.7 16	308.1 3	0.23 26
Minimum Date	3.9 16		78.9 16	61.1 25	137.0 26	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT Landfill

Log Date: 2004/07

Printing: 2004/08/20

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	6.2	159.1	82.6	67.9	230.2	0.00
02	5.8	237.2	82.7	67.8	239.3	0.00
03	5.8	254.3	82.7	67.5	265.4	0.01
04	5.5	254.7	82.8	66.4	230.2	0.00
05	6.0	298.1	81.9	70.3	248.1	0.00
06	5.1	317.6	80.4	77.7	152.7	0.00
07	6.1	168.1	82.4	70.6	235.9	0.00
08	4.8	148.1	81.0	73.6	179.4	0.02
09	6.1	150.4	81.9	72.9	250.9	0.00
10	6.2	318.6	84.0	66.3	251.0	0.00
11	6.9	107.7	82.3	69.2	138.1	0.00
12	7.5	3.9	84.7	62.0	339.7	0.00
13	7.1	239.7	83.7	61.1	328.9	0.00
14	6.8	188.2	83.2	61.5	308.4	0.00
15	6.6	285.9	83.5	61.3	289.7	0.00
16	6.4	215.5	84.5	62.0	308.6	0.00
17	6.4	251.2	85.0	61.0	318.4	0.00
18	5.1	220.3	82.0	72.8	149.1	0.00
19	4.6	94.7	81.2	78.8	220.1	0.08
20	5.2	52.9	81.1	75.1	272.7	0.00
21	5.4	28.2	81.1	72.8	325.7	0.00
22	6.0	40.9	82.4	70.4	306.4	0.00
23	5.6	43.8	82.3	69.2	210.0	0.00
24	5.6	215.3	84.2	65.2	221.5	0.00
25	6.7	117.5	84.9	61.3	305.1	0.00
26	5.5	156.7	81.2	73.0	218.1	0.04
27	6.1	216.8	82.7	71.8	222.9	0.01
28	6.4	214.8	85.1	68.8	276.8	0.01
29	5.8	327.8	83.0	68.9	216.0	0.00
30	6.7	286.1	84.5	61.9	267.1	0.00
31	6.5	278.2	83.0	69.1	225.5	0.03
Sum	186.5		2568.0	2118.5	7751.9	0.20
Average	6.0	230.4	82.8	68.3	250.1	0.01
Maximum Date	7.5 12		85.1 28	78.8 19	339.7 12	0.08 19
Minimum Date	4.6 19		80.4 6	61.0 17	138.1 11	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT Landfill

01 9.5
02 14.5
03 16.5
04 30.00

Log Date: 2004/08

Printing: 2004/12/16

Item Date	WS (mph)	AT (Deg F)	WD (Deg)	RH (%)	SR (W/m2)	RN (inch)
01	7.6	85.2	143.0	61.9	249.5	0.00
02	6.8	83.2	62.6	75.1	176.0	0.00
03	7.4	84.7	120.6	70.3	289.7	0.05
04	6.6	77.5	106.4	86.5	48.5	1.56
05	6.7	82.5	90.9	70.3	209.1	0.00
06	5.5	82.2	237.3	73.3	180.0	0.00
07	5.0	82.3	109.5	82.3	177.0	0.00
08	4.7	80.9	109.6	84.7	202.1	0.04
09	5.7	83.2	117.5	70.1	215.8	0.01
10	6.4	82.9	233.0	68.2	236.5	0.00
11	6.1	82.3	140.6	70.9	211.8	0.00
12	5.8	82.6	269.2	72.1	211.1	0.00
13	5.6	83.9	48.7	71.2	223.4	0.00
14	5.7	85.3	228.1	67.9	242.5	0.00
15	5.9	85.3	161.0	63.0	283.0	0.00
16	5.7	84.0	67.7	70.5	298.0	0.00
17	5.4	83.2	41.3	80.7	248.4	0.01
18	5.0	82.7	12.9	84.0	234.3	0.00
19	6.2	83.3	12.4	77.5	281.3	0.00
20	6.4	85.2	256.5	63.4	290.0	0.00
21	5.6	83.8	232.1	71.2	239.4	0.00
22	6.5	84.5	146.3	65.4	248.2	0.00
23	6.3	84.4	125.2	67.3	306.1	0.00
24	5.7	82.3	207.9	75.0	246.8	0.08
25	5.9	85.2	246.6	66.8	312.2	0.00
26	5.8	84.1	260.6	70.6	222.4	0.00
27	6.3	84.9	176.9	67.1	278.3	0.00
28	6.8	84.2	119.5	69.1	219.5	0.00
29	5.6	83.7	49.1	68.6	204.7	0.00
30	5.5	81.8	91.8	72.7	223.7	0.00
31	5.8	84.0	269.4	67.7	253.9	0.00
Sum	186.1	2585.2		2225.1	7263.2	1.75
Average	6.0	83.4	136.3	71.8	234.3	0.06
Maximum Date	7.6 1	85.3 15		86.5 4	312.2 25	1.56 4
Minimum Date	4.7 8	77.5 4		61.9 1	48.5 4	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT Landfill

Log Date: 2004/11

Printing: 2004/12/16

Item Date	WS (mph)	AT (Deg F)	WD (Deg)	RH (%)	SR (W/m2)	RN (inch)
01	4.1	79.9	98.0	86.7	213.8	0.00
02	5.0	82.9	107.9	70.3	205.4	0.00
03	4.6	79.9	324.9	82.6	109.5	1.65
04	4.1	79.0	297.5	92.2	190.8	0.26
05	4.1	74.1	300.3	99.0	34.7	3.59
06	4.2	78.6	36.5	87.7	212.4	0.32
07	4.1	78.6	11.0	90.9	223.1	0.71
08	4.2	79.0	10.1	88.9	231.4	0.00
09	3.8	79.3	11.3	89.3	199.8	0.00
10	4.0	79.7	13.4	88.3	184.7	0.00
11	5.3	79.7	349.9	75.4	227.0	0.00
12	4.8	80.5	241.4	77.9	179.8	0.01
13	5.6	81.0	32.9	83.2	234.8	0.05
14	13.0	77.1	92.7	81.0	162.3	0.00
15	10.6	78.6	259.1	64.3	199.0	0.00
16	8.1	78.4	12.7	77.2	149.2	0.00
17	5.1	79.3	10.0	78.0	149.1	0.00
18	6.3	79.1	273.1	68.0	212.4	0.00
19	4.4	76.6	324.1	72.5	196.9	0.00
20	4.0	76.1	307.2	76.7	156.5	0.00
21	4.3	75.4	270.7	75.3	219.6	0.00
22	3.7	76.8	297.0	79.3	215.1	0.00
23	3.9	79.1	359.3	78.8	222.0	0.00
24	4.2	78.8	154.5	84.1	192.4	0.00
25	4.0	77.1	124.7	94.6	115.1	0.79
26	4.0	77.4	107.9	87.4	175.5	0.04
27	4.3	77.9	75.9	81.2	144.5	0.03
28	5.2	78.1	208.5	83.3	156.0	0.25
29	7.7	80.0	318.2	69.8	201.6	0.00
30	10.8	79.1	168.1	70.6	108.5	0.00
Sum	161.4	2357.3		2434.2	5422.8	7.70
Average	5.4	78.6	353.1	81.1	180.8	0.26
Maximum Date	13.0 14	82.9 2		99.0 5	234.8 13	3.59 5
Minimum Date	3.7 22	74.1 5		64.3 15	34.7 5	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT Landfill

Log Date: 2004/12

Printing: 2004/12/16

Item Date	WS (mph)	AT (Deg F)	WD (Deg)	RH (%)	SR (W/m2)	RN (inch)
01	10.7	79.1	61.0	70.1	176.2	0.00
02	9.6	78.4	120.5	65.3	210.0	0.00
03	8.5	78.5	90.0	64.9	185.9	0.00
04	7.5	77.4	53.2	68.4	183.1	0.01
05	7.0	77.4	54.1	67.5	149.8	0.00
06	6.9	76.5	206.8	69.5	181.9	0.00
07	5.5	77.9	40.9	72.5	191.5	0.00
08	4.3	77.0	359.4	85.1	209.9	0.00
09	8.7	74.7	19.7	75.8	160.7	0.00
10	8.7	72.4	21.4	58.3	208.1	0.00
11	4.2	72.9	27.4	65.4	159.5	0.00
12	4.7	73.2	33.7	71.0	147.4	0.00
13	4.1	73.1	50.4	74.9	208.3	0.00
14	3.8	74.4	62.3	80.9	207.3	0.00
15	3.7	74.6	38.1	76.4	208.7	0.00
16	3.7	73.4	52.3	73.2	0.7	0.00
17	----	----	----	----	----	----
18	----	----	----	----	----	----
19	----	----	----	----	----	----
20	----	----	----	----	----	----
21	----	----	----	----	----	----
22	----	----	----	----	----	----
23	----	----	----	----	----	----
24	----	----	----	----	----	----
25	----	----	----	----	----	----
26	----	----	----	----	----	----
27	----	----	----	----	----	----
28	----	----	----	----	----	----
29	----	----	----	----	----	----
30	----	----	----	----	----	----
31	----	----	----	----	----	----
Sum	101.4	1211.0		1139.2	2788.9	0.01
Average	6.3	75.7	48.9	71.2	174.3	0.00
Maximum Date	10.7 1	79.1 1		85.1 8	210.0 2	0.01 4
Minimum Date	3.7 16	72.4 10		58.3 10	0.7 16	0.00 1
Standard # above	----	----	----	----	----	----
Valid	52%	52%	52%	52%	52%	52%

PVT

Log Date: 2005/05/25

Printing: 2005/05/26

Item Time	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)
01:00	4.3	22.1	77.5	73.5	0.2
02:00	2.1	12.9	74.9	79.0	0.2
03:00	2.0	42.7	74.7	81.1	0.2
04:00	2.4	24.7	74.3	82.5	0.2
05:00	2.8	21.5	73.6	83.1	0.2
06:00	2.9	39.1	73.1	83.4	1.4
07:00	1.6	79.0	73.0	83.2	24.6
08:00	3.0	31.5	80.3	72.1	302.9
09:00	3.7	202.4	83.7	64.6	324.9
10:00	4.8	232.4	83.1	66.4	357.8
11:00	6.1	257.5	82.4	69.6	322.4
12:00	7.0	268.9	83.1	72.3	432.3
13:00	9.2	275.5	82.1	76.2	305.3
14:00	10.3	273.4	81.8	75.4	339.5
15:00	8.8	268.8	83.1	73.6	446.9
16:00	7.5	262.8	83.0	73.9	355.4
17:00	6.5	261.7	83.2	73.9	263.8
18:00	4.5	258.7	82.8	73.0	129.6
19:00	3.2	112.7	82.3	66.6	49.0
20:00	2.6	59.4	78.6	68.5	2.6
21:00	2.2	73.2	76.7	73.7	0.2
22:00	2.9	119.9	76.8	73.6	0.2
23:00	2.7	96.7	76.1	75.2	0.2
24:00	2.3	37.4	75.6	77.8	0.2
Sum	105.4		1895.9	1792.1	3660.0
Average	4.4	3.6	79.0	74.7	152.5
Maximum Time	10.3 14:00		83.7 09:00	83.4 06:00	446.9 15:00
Minimum Time	1.6 07:00		73.0 07:00	64.6 09:00	0.2 01:00
Standard # above	----	----	----	----	----
Valid	100%	100%	100%	100%	100%

PVT

Log Date: 2005/01

Printing: 2005/05/27

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	6.8	137.3	74.2	96.3	25.6	0.90
02	5.6	351.4	72.0	85.6	181.7	0.01
03	7.6	305.5	73.3	78.0	184.5	0.00
04	5.4	348.7	73.3	75.3	211.2	0.00
05	4.7	14.8	71.2	84.7	190.3	0.00
06	4.9	359.4	72.8	81.4	183.9	0.00
07	3.7	28.4	73.6	77.6	213.4	0.00
08	5.4	93.5	75.4	77.2	210.8	0.00
09	4.0	345.1	71.3	93.8	61.2	1.60
10	4.2	22.6	70.7	79.4	212.8	0.00
11	7.3	300.0	73.9	72.8	194.2	0.00
12	5.1	271.9	72.3	76.3	208.5	0.00
13	7.1	253.7	75.8	84.5	123.9	0.13
14	5.8	228.1	77.0	87.4	178.3	0.11
15	6.2	192.2	78.0	91.0	166.3	0.03
16	5.9	176.9	78.9	93.3	163.8	0.00
17	6.1	205.2	75.0	96.3	55.4	0.68
18	4.3	353.7	74.8	93.9	186.3	0.07
19	3.8	67.4	74.4	90.7	183.2	0.00
20	4.1	207.9	76.7	92.6	148.9	0.00
21	6.3	326.0	75.3	82.9	167.5	0.02
22	5.0	67.2	73.9	70.3	227.9	0.00
23	3.9	128.9	76.9	91.5	179.3	0.13
24	4.1	3.9	76.6	92.5	229.7	0.00
25	3.8	77.8	76.0	91.9	192.3	0.00
26	4.1	49.2	75.8	86.2	168.8	0.00
27	5.0	48.5	77.6	80.3	199.0	0.05
28	3.6	85.5	76.1	86.3	226.7	0.00
29	3.9	92.5	74.1	96.5	107.7	1.11
30	3.7	73.2	76.8	85.6	211.9	0.00
31	4.2	71.7	75.3	89.7	139.2	0.61
Sum	155.4		2319.1	2662.0	5334.1	5.45
Average	5.0	34.7	74.8	85.9	172.1	0.18
Maximum Date	7.6 3		78.9 16	96.5 29	229.7 24	1.60 9
Minimum Date	3.6 28		70.7 10	70.3 22	25.6 1	0.00 3
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT

Log Date: 2005/02

Printing: 2005/05/27

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	3.6	86.0	72.1	92.2	88.6	0.21
02	3.4	37.9	70.6	93.2	59.3	0.08
03	6.3	13.4	71.4	84.3	130.5	0.18
04	5.0	38.0	74.0	87.2	107.8	0.36
05	4.1	48.2	76.5	84.8	222.5	0.00
06	4.0	54.0	76.5	87.9	235.3	0.00
07	4.5	22.2	76.6	87.3	212.8	0.00
08	4.5	46.4	77.3	77.6	237.7	0.00
09	4.7	17.0	76.1	81.8	149.2	0.00
10	4.5	24.9	76.5	75.4	232.7	0.00
11	8.4	22.6	74.1	77.2	218.1	0.00
12	6.3	5.3	73.1	73.6	115.0	0.07
13	7.2	5.8	74.0	66.9	255.3	0.00
14	4.7	25.3	73.2	69.5	196.6	0.00
15	5.0	13.9	75.5	61.1	231.0	0.00
16	6.0	25.7	74.9	61.5	238.4	0.00
17	6.1	32.5	75.2	63.6	230.1	0.00
18	5.7	41.3	75.6	63.0	232.0	0.00
19	4.5	22.0	73.4	66.0	221.4	0.00
20	5.1	10.5	72.7	71.0	220.8	0.00
21	4.9	353.8	73.0	69.4	265.4	0.00
22	5.1	12.3	72.6	70.0	231.4	0.00
23	4.1	32.7	72.3	83.2	158.5	0.09
24	4.8	355.5	73.6	82.4	158.3	0.03
25	8.8	4.3	74.8	69.5	238.5	0.00
26	6.3	358.0	75.7	69.4	247.7	0.00
27	6.9	36.3	76.7	69.8	249.2	0.00
28	6.4	32.8	76.9	64.0	260.6	0.00
Sum	151.0		2084.7	2102.7	5644.7	1.02
Average	5.4	24.6	74.5	75.1	201.6	0.04
Maximum Date	8.8 25		77.3 8	93.2 2	265.4 21	0.36 4
Minimum Date	3.4 2		70.6 2	61.1 15	59.3 2	0.00 5
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT

Log Date: 2005/03

Printing: 2005/05/27

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	4.3	13.1	74.2	70.4	275.1	0.00
02	6.0	64.9	75.3	68.1	241.1	0.00
03	3.9	133.2	76.0	70.9	267.0	0.00
04	4.6	168.5	77.5	73.3	255.4	0.00
05	5.5	259.5	76.3	81.7	211.6	0.00
06	4.4	46.5	75.8	83.4	261.2	0.00
07	4.4	208.9	76.8	84.3	198.7	0.00
08	4.7	138.3	76.2	92.6	164.6	0.47
09	8.8	324.1	77.0	83.7	277.5	0.11
10	12.5	20.3	72.4	69.0	280.7	0.00
11	8.3	33.4	75.4	62.1	273.9	0.00
12	4.4	5.5	70.6	85.2	146.4	0.79
13	5.6	350.4	69.4	76.9	245.0	0.01
14	11.9	294.6	70.0	64.7	243.9	0.01
15	9.8	322.6	69.9	67.1	248.3	0.01
16	6.6	357.9	70.7	69.7	303.7	0.00
17	4.3	34.3	72.1	75.4	297.5	0.00
18	3.9	25.2	73.0	79.5	225.0	0.00
19	4.2	5.2	72.8	81.7	148.9	0.00
20	4.1	18.7	74.2	78.0	286.8	0.00
21	4.6	358.6	74.0	77.7	298.1	0.00
22	4.8	355.2	74.2	82.0	301.4	0.00
23	4.3	15.8	76.2	83.4	286.9	0.00
24	4.3	350.8	77.1	82.2	287.7	0.16
25	6.7	341.5	75.2	88.6	157.1	0.19
26	12.8	12.7	72.5	73.4	203.9	0.00
27	10.5	20.9	75.0	64.8	306.6	0.00
28	7.8	9.7	78.1	65.8	298.7	0.00
29	4.9	43.0	78.5	76.4	202.7	0.00
30	5.3	54.0	79.2	69.4	232.8	0.00
31	7.5	349.1	78.5	66.0	292.0	0.00
Sum	195.8		2314.1	2347.4	7720.1	1.75
Average	6.3	11.2	74.6	75.7	249.0	0.06
Maximum Date	12.8 26		79.2 30	92.6 8	306.6 27	0.79 12
Minimum Date	3.9 3		69.4 13	62.1 11	146.4 12	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

PVT

Log Date: 2005/04

Printing: 2005/05/27

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	8.5	342.6	76.5	70.9	307.3	0.00
02	7.5	41.6	77.3	69.9	296.6	0.00
03	7.2	39.6	77.4	68.5	291.0	0.00
04	6.2	7.6	76.0	73.2	247.4	0.00
05	6.2	3.3	75.9	74.8	227.2	0.00
06	5.3	24.9	76.5	72.6	207.3	0.00
07	7.6	15.1	77.9	71.4	267.9	0.00
08	6.6	52.0	79.9	73.7	253.8	0.00
09	7.6	51.6	80.8	69.8	324.2	0.00
10	7.7	42.1	80.5	64.6	307.4	0.00
11	6.9	129.7	80.1	68.9	235.8	0.00
12	7.2	23.1	79.7	64.2	256.9	0.00
13	5.7	327.0	78.5	69.8	185.8	0.00
14	6.7	201.3	80.5	65.5	248.3	0.00
15	6.4	66.7	80.9	64.7	275.1	0.00
16	6.5	66.4	81.1	65.9	321.4	0.00
17	5.8	37.5	79.5	67.7	231.1	0.00
18	5.5	18.7	78.1	70.7	263.7	0.00
19	5.1	26.5	79.7	61.9	326.7	0.00
20	5.3	57.7	79.1	62.1	287.4	0.00
21	6.0	40.6	78.3	64.8	291.6	0.00
22	5.6	27.3	78.2	63.0	241.6	0.00
23	5.0	48.0	76.0	66.2	218.7	0.00
24	4.8	47.7	77.7	64.5	280.5	0.00
25	5.9	58.3	78.2	63.5	248.8	0.00
26	5.2	21.2	78.2	70.0	280.7	0.00
27	4.8	343.6	75.7	80.6	274.8	0.00
28	5.1	338.2	75.9	76.3	228.8	0.02
29	4.7	343.0	75.6	73.6	314.3	0.00
30	4.7	338.7	75.9	74.2	321.2	0.00
Sum	183.2		2345.7	2067.2	8063.6	0.02
Average	6.1	27.8	78.2	68.9	268.8	0.00
Maximum Date	8.5 1		81.1 16	80.6 27	326.7 19	0.02 28
Minimum Date	4.7 30		75.6 29	61.9 19	185.8 13	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

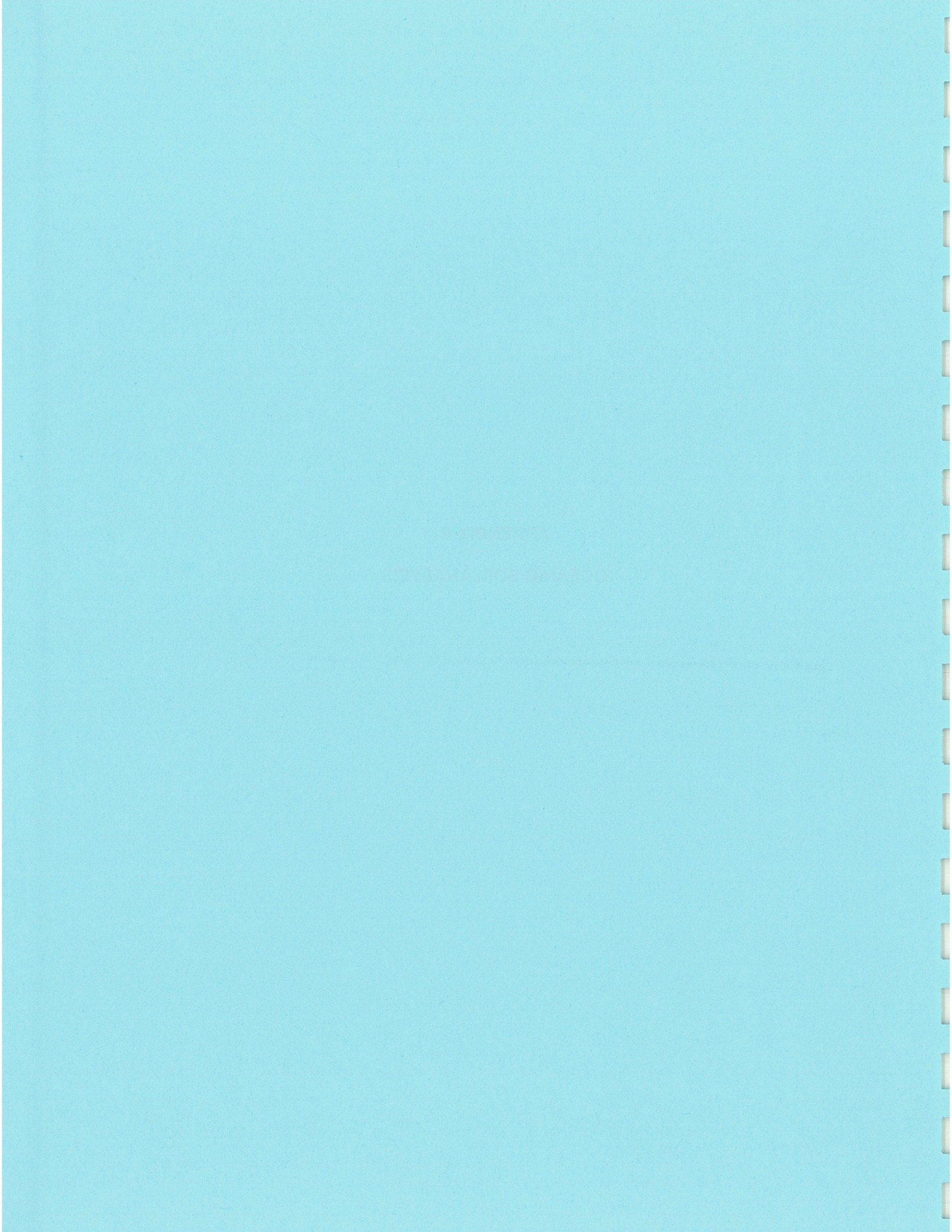
PVT

Log Date: 2005/05

Printing: 2005/05/26

Item Date	WS (mph)	WD (Deg)	AT (Deg F)	RH (%)	SR (W/m2)	RN (inch)
01	4.9	333.3	76.5	77.4	310.4	0.00
02	4.0	19.5	77.9	81.7	222.2	0.00
03	3.3	95.2	77.5	83.3	126.1	0.00
04	4.1	90.9	79.5	79.5	258.0	0.00
05	4.5	74.5	81.1	74.5	283.8	0.00
06	5.1	19.1	81.8	69.1	250.9	0.00
07	5.5	25.7	82.6	65.4	302.4	0.00
08	5.2	33.6	82.7	66.9	272.9	0.00
09	5.9	335.3	80.8	72.0	277.4	0.01
10	4.5	344.4	79.3	75.7	247.5	0.00
11	4.0	103.9	80.4	71.3	301.6	0.00
12	4.5	0.7	79.3	71.7	301.1	0.00
13	4.4	22.3	80.4	67.1	211.4	0.00
14	7.9	62.3	82.5	63.4	312.5	0.00
15	6.3	68.6	82.5	60.6	307.8	0.00
16	6.0	24.6	83.1	61.3	340.2	0.00
17	5.6	351.2	81.5	67.2	271.2	0.00
18	6.1	0.4	79.0	78.8	169.8	0.04
19	5.9	15.9	79.0	77.2	246.3	0.00
20	4.8	315.7	80.9	73.3	281.3	0.00
21	5.5	5.3	81.4	73.0	240.1	0.00
22	4.4	355.5	80.0	80.3	173.8	0.24
23	5.7	3.4	80.7	76.3	276.7	0.00
24	4.8	20.8	81.6	67.3	275.4	0.00
25	4.4	3.6	79.0	74.7	152.5	0.00
26	2.7	353.2	75.2	79.0	4.2	0.00
27	----	----	----	----	----	----
28	----	----	----	----	----	----
29	----	----	----	----	----	----
30	----	----	----	----	----	----
31	----	----	----	----	----	----
Sum	129.9		2086.2	1887.9	6417.4	0.29
Average	5.0	19.3	80.2	72.6	246.8	0.01
Maximum Date	7.9 14		83.1 16	83.3 3	340.2 16	0.24 22
Minimum Date	2.7 26		75.2 26	60.6 15	4.2 26	0.00 1
Standard # above	----	----	----	----	----	----
Valid	84%	84%	84%	84%	84%	84%

APPENDIX C
OCEANIC SOIL ANALYSIS



April 08, 2005

Russell Okoji
AMEC Earth & Environmental
Airport Industrial Center
3375 Koapaka Street, Suite F251
Honolulu, HI 96819
TEL: (808) 545-2462
FAX (808) 528-5379

RE: PVT Landfill

Work Order No.: 0503155

Dear Russell Okoji:

Oceanic Analytical Laboratory, Inc. received/relogged 10 samples on 3/25/2005 04:50 PM for the analyses presented in the following report.

The total number of pages in the report including this Coverletter, Sample Summary, Case Narrative, Result Summary, QC Summary, Chain of Custody form(s), Relog Request Form and/or any attachment(s) 19.

All data presented in the following report are relevant only to the samples as received and to the items tested by the laboratory. All data are calculated based on wet weight except where noted in the reporting unit. The report meets all applicable NELAC standards and shall not be reproduced except in full, without the written approval of the laboratory.

There were no problems with the analyses and all data for associated QC met laboratory specifications except where noted in the Case Narrative.

Applicable samples will be stored at no extra charge for a period of 30 days following the final report. Samples will be properly disposed of after 30 days, unless notified otherwise in writing.

If you have any questions regarding these tests results, please feel free to call.

Very truly yours,
OCEANIC ANALYTICAL LABORATORY, INC.



for: Kenneth K.F. Lee
Laboratory Director

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

Work Order Sample Summary

Client: AMEC Earth & Environmental
Project: PVT Landfill
Work Order: 0503155
Date Received: 3/25/2005

Analytical Report for Samples

Lab Sample ID	Client Sample ID	Collection Date	Sample On Hold
0503155-01A	EG 01	03/25/2005 09:50	☐
0503155-02A	EG 02	03/25/2005 09:55	☐
0503155-03A	EG 03	03/25/2005 09:58	☐
0503155-04A	EG 04	03/25/2005 10:03	☐
0503155-05A	EG 05	03/25/2005 10:07	☐
0503155-06A	EG 06	03/25/2005 10:09	☐
0503155-07A	EG 07	03/25/2005 10:12	☐
0503155-08A	EG 08	03/25/2005 10:18	☐
0503155-09A	EG 09	03/25/2005 10:26	☐
0503155-10A	EG 010	03/25/2005 10:30	☐

Case Narrative

Client: AMEC Earth & Environmental
Project: PVT Landfill
Work Order: 0503155

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Analytical Comments for METHOD 8082_S, SAMPLE 0503155-08, 02: High concentration of non-aroclor compound.

Analytical Comments for METHOD 8082_S, SAMPLE LCS-11537: C01,C04
Analytical Comments for METHOD 8082_S, SAMPLE MB-11537: C01,C04
Analytical Comments for METHOD 8082_S, SAMPLE 0503155-02A: C01,C04
Analytical Comments for METHOD 8082_S, SAMPLE 0503155-08A: C01,C04
Analytical Comments for METHOD 8082_O, SAMPLE LCSD-11548: C01,C02,C04
Analytical Comments for METHOD 8082_O, SAMPLE LCS-11548: C01,C02,C04
Analytical Comments for METHOD 8082_O, SAMPLE MB-11548: C01,C02,C04
Analytical Comments for METHOD 8082_S, SAMPLE LCS-11537: C01,C02,C04
Analytical Comments for METHOD 8082_S, SAMPLE MB-11537: C01,C02,C04
Analytical Comments for METHOD 8082_S, SAMPLE 0503155-02A: C01,C02,C04
Analytical Comments for METHOD 8082_S, SAMPLE 0503155-08A: C01,C02,C04
Analytical Comments for METHOD 8082_S, SAMPLE 0503155-02A: C01,C02,C04,R01
Analytical Comments for METHOD 8082_S, SAMPLE 0503155-08A: C01,C02,C04,R01

C01: To reduce matrix interference, the sample extract has undergone sulfuric acid cleanup, SW3665A, which is specific to hydrocarbon interference.

C02: To reduce matrix interference, the sample extract has undergone tetrabutylammonium (TBA) sulfite cleanup, SW3660B, which is specific to sulfur interference.

C04: To reduce matrix interference, the sample extract has undergone florisil cleanup, SW3620B, which is specific to nonpolar compound interference.

R01: The reporting limit for this analyte has been raised to account for matrix interference

.Q02: The spike recovery/RPD for this QC sample is outside of established control limits due to sample matrix interference.

Result Summary

Client: AMEC Earth & Environmental
 Work Order: 0503155
 Project: PVT Landfill
 Lab ID: 0503155-01A

Client Sample ID: EG 01
 Tag Number:
 Collection Date: 03/25/2005 9:50
 Matrix: SOIL

Analyses	Result	Reporting Limit	Units	Dilution Factor	Date Prepared	Date Analyzed	Batch ID	Qual Notes
ICP METALS-RCRA, TOTAL				SW3050A / SW6010B				
Arsenic	ND	5.00	mg/Kg	1	3/30/05	3/31/2005 1:37:08 PM	11528	
<u>Barium</u>	<u>26.7</u>	10.0	mg/Kg	1				
Cadmium	ND	2.00	mg/Kg	1				
<u>Chromium</u>	<u>46.6</u>	5.00	mg/Kg	1				
Lead	ND	20.0	mg/Kg	1				
Selenium	ND	10.0	mg/Kg	1				
Silver	ND	5.00	mg/Kg	1				
MERCURY, TOTAL				SW7471 / SW7471				
Mercury	ND	0.200	mg/Kg	1	4/1/05	4/1/2005 3:34:00 PM	11542	
PCBS IN SOIL OR SOLID WASTE				SW3550 / SW8082				
Aroclor 1016	ND	0.0333	mg/Kg	1	3/31/05	4/2/2005 12:12:00 AM	11537	C01
Aroclor 1221	ND	0.0667	mg/Kg	1				
Aroclor 1232	ND	0.0333	mg/Kg	1				
Aroclor 1242	ND	0.0333	mg/Kg	1				
Aroclor 1248	ND	0.0333	mg/Kg	1				
Aroclor 1254	ND	0.0333	mg/Kg	1				
Aroclor 1260	ND	0.0333	mg/Kg	1				
Surr: Decachlorobiphenyl	93.0	24-154	%REC	1				

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

Result Summary

Client: AMEC Earth & Environmental
Work Order: 0503155
Project: PVT Landfill
Lab ID: 0503155-02A

Client Sample ID: EG 02
Tag Number:
Collection Date: 03/25/2005 9:55
Matrix: SOIL

Analyses	Result	Reporting Limit	Units	Dilution Factor	Date Prepared	Date Analyzed	Batch ID	Qual Notes
ICP METALS-RCRA, TOTAL				SW3050A / SW6010B				
Arsenic	ND	5.00	mg/Kg	1	3/30/05	3/31/2005 1:42:38 PM	11528	
<u>Barium</u>	<u>72.4</u>	10.0	mg/Kg	1				
Cadmium	ND	2.00	mg/Kg	1				
<u>Chromium</u>	<u>50.8</u>	5.00	mg/Kg	1				
Lead	ND	20.0	mg/Kg	1				
Selenium	ND	10.0	mg/Kg	1				
Silver	ND	5.00	mg/Kg	1				
MERCURY, TOTAL				SW7471 / SW7471				
Mercury	ND	0.200	mg/Kg	1	4/1/05	4/1/2005 3:35:00 PM	11542	
PCBS IN SOIL OR SOLID WASTE				SW3550 / SW8082				
Aroclor 1016	ND	0.667	mg/Kg	20	3/31/05	4/7/2005 5:29:00 PM	11537	
Aroclor 1221	ND	1.33	mg/Kg	20				
Aroclor 1232	ND	0.667	mg/Kg	20				
Aroclor 1242	ND	0.667	mg/Kg	20				
Aroclor 1248	ND	0.667	mg/Kg	20				
Aroclor 1254	ND	0.667	mg/Kg	20				
Aroclor 1260	ND	0.667	mg/Kg	20				
Surr: Decachlorobiphenyl	113	24-154	%REC	20				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

Result Summary

Client:	AMEC Earth & Environmental	Client Sample ID:	EG 03
Work Order:	0503155	Tag Number:	
Project:	PVT Landfill	Collection Date:	03/25/2005 9:58
Lab ID:	0503155-03A	Matrix:	SOIL

Analyses	Result	Reporting Limit	Units	Dilution Factor	Date Prepared	Date Analyzed	Batch ID	Qual Notes
ICP METALS-RCRA, TOTAL				SW3050A / SW6010B				
Arsenic	ND	4.67	mg/Kg	1	3/30/05	3/31/2005 1:48:09 PM	11528	
<u>Barium</u>	<u>67.4</u>	9.35	mg/Kg	1				
Cadmium	ND	1.87	mg/Kg	1				
<u>Chromium</u>	<u>55.9</u>	4.67	mg/Kg	1				
Lead	ND	18.7	mg/Kg	1				
Selenium	ND	9.35	mg/Kg	1				
Silver	ND	4.67	mg/Kg	1				
MERCURY, TOTAL				SW7471 / SW7471				
Mercury	ND	0.188	mg/Kg	1	4/1/05	4/1/2005 3:42:00 PM	11542	
PCBS IN SOIL OR SOLID WASTE				SW3550 / SW8082				
Aroclor 1016	ND	0.0333	mg/Kg	1	3/31/05	4/2/2005 1:11:00 AM	11537	C01
Aroclor 1221	ND	0.0667	mg/Kg	1				
Aroclor 1232	ND	0.0333	mg/Kg	1				
Aroclor 1242	ND	0.0333	mg/Kg	1				
Aroclor 1248	ND	0.0333	mg/Kg	1				
Aroclor 1254	ND	0.0333	mg/Kg	1				
Aroclor 1260	ND	0.0333	mg/Kg	1				
Surr: Decachlorobiphenyl	81.3	24-154	%REC	1				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

Result Summary

Client: AMEC Earth & Environmental
Work Order: 0503155
Project: PVT Landfill
Lab ID: 0503155-04A

Client Sample ID: EG 04
Tag Number:
Collection Date: 03/25/2005 10:03
Matrix: SOIL

Analyses	Result	Reporting Limit	Units	Dilution Factor	Date Prepared	Date Analyzed	Batch ID	Qual Notes
ICP METALS-RCRA, TOTAL				SW3050A / SW6010B				
Arsenic	ND	5.00	mg/Kg	1	3/30/05	3/31/2005 1:53:43 PM	11528	
<u>Barium</u>	<u>55.8</u>	10.0	mg/Kg	1				
Cadmium	ND	2.00	mg/Kg	1				
<u>Chromium</u>	<u>49.1</u>	5.00	mg/Kg	1				
<u>Lead</u>	<u>27.1</u>	20.0	mg/Kg	1				
Selenium	ND	10.0	mg/Kg	1				
Silver	ND	5.00	mg/Kg	1				
MERCURY, TOTAL				SW7471 / SW7471				
Mercury	ND	0.188	mg/Kg	1	4/1/05	4/1/2005 3:50:00 PM	11542	
PCBS IN SOIL OR SOLID WASTE				SW3550 / SW8082				
Aroclor 1016	ND	0.0333	mg/Kg	1	3/31/05	4/2/2005 1:41:00 AM	11537	C01
Aroclor 1221	ND	0.0667	mg/Kg	1				
Aroclor 1232	ND	0.0333	mg/Kg	1				
Aroclor 1242	ND	0.0333	mg/Kg	1				
Aroclor 1248	ND	0.0333	mg/Kg	1				
Aroclor 1254	ND	0.0333	mg/Kg	1				
Aroclor 1260	ND	0.0333	mg/Kg	1				
Surr: Decachlorobiphenyl	76.3	24-154	%REC	1				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

Result Summary

Client: AMEC Earth & Environmental
Work Order: 0503155
Project: PVT Landfill
Lab ID: 0503155-05A

Client Sample ID: EG 05
Tag Number:
Collection Date: 03/25/2005 10:07
Matrix: SOIL

Analyses	Result	Reporting Limit	Units	Dilution Factor	Date Prepared	Date Analyzed	Batch ID	Qual Notes
ICP METALS-RCRA, TOTAL				SW3050A / SW6010B				
Arsenic	ND	4.90	mg/Kg	1	3/30/05	3/31/2005 2:09:28 PM	11528	
<u>Barium</u>	<u>34.3</u>	9.80	mg/Kg	1				
Cadmium	ND	1.96	mg/Kg	1				
<u>Chromium</u>	<u>51.3</u>	4.90	mg/Kg	1				
Lead	ND	19.6	mg/Kg	1				
Selenium	ND	9.80	mg/Kg	1				
Silver	ND	4.90	mg/Kg	1				
MERCURY, TOTAL				SW7471 / SW7471				
Mercury	ND	0.200	mg/Kg	1	4/1/05	4/1/2005 3:52:00 PM	11542	
PCBS IN SOIL OR SOLID WASTE				SW3550 / SW8082				
Aroclor 1016	ND	0.0333	mg/Kg	1	3/31/05	4/2/2005 2:11:00 AM	11537	C01
Aroclor 1221	ND	0.0667	mg/Kg	1				
Aroclor 1232	ND	0.0333	mg/Kg	1				
Aroclor 1242	ND	0.0333	mg/Kg	1				
Aroclor 1248	ND	0.0333	mg/Kg	1				
Aroclor 1254	ND	0.0333	mg/Kg	1				
Aroclor 1260	ND	0.0333	mg/Kg	1				
Surr: Decachlorobiphenyl	72.3	24-154	%REC	1				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

Result Summary

Client: AMEC Earth & Environmental
Work Order: 0503155
Project: PVT Landfill
Lab ID: 0503155-06A

Client Sample ID: EG 06
Tag Number:
Collection Date: 03/25/2005 10:09
Matrix: SOIL

Analyses	Result	Reporting Limit	Units	Dilution Factor	Date Prepared	Date Analyzed	Batch ID	Qual Notes
ICP METALS-RCRA, TOTAL				SW3050A / SW6010B				
Arsenic	ND	5.00	mg/Kg	1	3/30/05	3/31/2005 2:15:02 PM	11528	
<u>Barium</u>	<u>65.1</u>	10.0	mg/Kg	1				
<u>Cadmium</u>	<u>3.15</u>	2.00	mg/Kg	1				
<u>Chromium</u>	<u>109</u>	5.00	mg/Kg	1				
Lead	ND	20.0	mg/Kg	1				
Selenium	ND	10.0	mg/Kg	1				
Silver	ND	5.00	mg/Kg	1				
MERCURY, TOTAL				SW7471 / SW7471				
Mercury	ND	0.190	mg/Kg	1	4/1/05	4/1/2005 3:54:00 PM	11542	
PCBS IN SOIL OR SOLID WASTE				SW3550 / SW8082				
Aroclor 1016	ND	0.0333	mg/Kg	1	3/31/05	4/2/2005 2:41:00 AM	11537	C01
Aroclor 1221	ND	0.0667	mg/Kg	1				
Aroclor 1232	ND	0.0333	mg/Kg	1				
Aroclor 1242	ND	0.0333	mg/Kg	1				
Aroclor 1248	ND	0.0333	mg/Kg	1				
Aroclor 1254	ND	0.0333	mg/Kg	1				
Aroclor 1260	ND	0.0333	mg/Kg	1				
Surr: Decachlorobiphenyl	76.9	24-154	%REC	1				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

Result Summary

Client:	AMEC Earth & Environmental	Client Sample ID:	EG 07
Work Order:	0503155	Tag Number:	
Project:	PVT Landfill	Collection Date:	03/25/2005 10:12
Lab ID:	0503155-07A	Matrix:	SOIL

Analyses	Result	Reporting Limit	Units	Dilution Factor	Date Prepared	Date Analyzed	Batch ID	Qual Notes
ICP METALS-RCRA, TOTAL				SW3050A / SW6010B				
Arsenic	<u>7.69</u>	5.00	mg/Kg	1	3/30/05	3/31/2005 2:20:37 PM	11528	
Barium	<u>54.4</u>	10.0	mg/Kg	1				
Cadmium	ND	2.00	mg/Kg	1				
Chromium	<u>59.9</u>	5.00	mg/Kg	1				
Lead	<u>27.9</u>	20.0	mg/Kg	1				
Selenium	ND	10.0	mg/Kg	1				
Silver	ND	5.00	mg/Kg	1				
MERCURY, TOTAL				SW7471 / SW7471				
Mercury	ND	0.200	mg/Kg	1	4/1/05	4/1/2005 3:55:00 PM	11542	
PCBS IN SOIL OR SOLID WASTE				SW3550 / SW8082				
Aroclor 1016	ND	0.0333	mg/Kg	1	3/31/05	4/2/2005 3:10:00 AM	11537	C01
Aroclor 1221	ND	0.0667	mg/Kg	1				
Aroclor 1232	ND	0.0333	mg/Kg	1				
Aroclor 1242	ND	0.0333	mg/Kg	1				
Aroclor 1248	ND	0.0333	mg/Kg	1				
Aroclor 1254	ND	0.0333	mg/Kg	1				
Aroclor 1260	ND	0.0333	mg/Kg	1				
Surr: Decachlorobiphenyl	76.4	24-154	%REC	1				

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

Result Summary

Client: AMEC Earth & Environmental
Work Order: 0503155
Project: PVT Landfill
Lab ID: 0503155-08A

Client Sample ID: EG 08
Tag Number:
Collection Date: 03/25/2005 10:18
Matrix: SOIL

Analyses	Result	Reporting Limit	Units	Dilution Factor	Date Prepared	Date Analyzed	Batch ID	Qual Notes
ICP METALS-RCRA, TOTAL				SW3050A / SW6010B				
Arsenic	<u>8.11</u>	4.90	mg/Kg	1	3/30/05	3/31/2005 2:26:11 PM	11528	
Barium	<u>113</u>	9.80	mg/Kg	1				
Cadmium	ND	1.96	mg/Kg	1				
Chromium	<u>63.4</u>	4.90	mg/Kg	1				
Lead	<u>62.8</u>	19.6	mg/Kg	1				
Selenium	ND	9.80	mg/Kg	1				
Silver	ND	4.90	mg/Kg	1				
MERCURY, TOTAL				SW7471 / SW7471				
Mercury	ND	0.200	mg/Kg	1	4/1/05	4/1/2005 3:57:00 PM	11542	
PCBS IN SOIL OR SOLID WASTE				SW3550 / SW8082				
Aroclor 1016	ND	0.667	mg/Kg	20	3/31/05	4/7/2005 5:55:00 PM	11537	
Aroclor 1221	ND	1.33	mg/Kg	20				
Aroclor 1232	ND	0.667	mg/Kg	20				
Aroclor 1242	ND	0.667	mg/Kg	20				
Aroclor 1248	ND	0.667	mg/Kg	20				
Aroclor 1254	ND	0.667	mg/Kg	20				
Aroclor 1260	ND	0.667	mg/Kg	20				
Surr: Decachlorobiphenyl	105	24-154	%REC	20				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

Result Summary

Client: AMEC Earth & Environmental
Work Order: 0503155
Project: PVT Landfill
Lab ID: 0503155-09A

Client Sample ID: EG 09
Tag Number:
Collection Date: 03/25/2005 10:26
Matrix: SOIL

Analyses	Result	Reporting Limit	Units	Dilution Factor	Date Prepared	Date Analyzed	Batch ID	Qual Notes
ICP METALS-RCRA, TOTAL				SW3050A / SW6010B				
Arsenic	ND	5.00	mg/Kg	1	3/30/05	3/31/2005 2:31:42 PM	11528	
Barium	<u>42.2</u>	10.0	mg/Kg	1				
Cadmium	ND	2.00	mg/Kg	1				
Chromium	<u>56.3</u>	5.00	mg/Kg	1				
Lead	ND	20.0	mg/Kg	1				
Selenium	ND	10.0	mg/Kg	1				
Silver	ND	5.00	mg/Kg	1				
MERCURY, TOTAL				SW7471 / SW7471				
Mercury	ND	0.200	mg/Kg	1	4/1/05	4/1/2005 3:59:00 PM	11542	
PCBS IN SOIL OR SOLID WASTE				SW3550 / SW8082				
Aroclor 1016	ND	0.0333	mg/Kg	1	3/31/05	4/2/2005 4:10:00 AM	11537	C01
Aroclor 1221	ND	0.0667	mg/Kg	1				
Aroclor 1232	ND	0.0333	mg/Kg	1				
Aroclor 1242	ND	0.0333	mg/Kg	1				
Aroclor 1248	ND	0.0333	mg/Kg	1				
Aroclor 1254	ND	0.0333	mg/Kg	1				
Aroclor 1260	ND	0.0333	mg/Kg	1				
Surr: Decachlorobiphenyl	80.6	24-154	%REC	1				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

Result Summary

Client: AMEC Earth & Environmental
Work Order: 0503155
Project: PVT Landfill
Lab ID: 0503155-10A

Client Sample ID: EG 010
Tag Number:
Collection Date: 03/25/2005 10:30
Matrix: SOIL

Analyses	Result	Reporting Limit	Units	Dilution Factor	Date Prepared	Date Analyzed	Batch ID	Qual Notes
ICP METALS-RCRA, TOTAL				SW3050A / SW6010B				
Arsenic	ND	5.00	mg/Kg	1	3/30/05	3/31/2005 2:37:14 PM	11528	
<u>Barium</u>	<u>41.7</u>	10.0	mg/Kg	1				
Cadmium	ND	2.00	mg/Kg	1				
<u>Chromium</u>	<u>55.2</u>	5.00	mg/Kg	1				
Lead	ND	20.0	mg/Kg	1				
Selenium	ND	10.0	mg/Kg	1				
Silver	ND	5.00	mg/Kg	1				
MERCURY, TOTAL				SW7471 / SW7471				
Mercury	ND	0.188	mg/Kg	1	4/1/05	4/1/2005 4:00:00 PM	11542	
PCBS IN SOIL OR SOLID WASTE				SW3550 / SW8082				
Aroclor 1016	ND	0.0333	mg/Kg	1	3/31/05	4/2/2005 4:40:00 AM	11537	C01
Aroclor 1221	ND	0.0667	mg/Kg	1				
Aroclor 1232	ND	0.0333	mg/Kg	1				
Aroclor 1242	ND	0.0333	mg/Kg	1				
Aroclor 1248	ND	0.0333	mg/Kg	1				
Aroclor 1254	ND	0.0333	mg/Kg	1				
Aroclor 1260	ND	0.0333	mg/Kg	1				
Surr: Decachlorobiphenyl	76.9	24-154	%REC	1				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

QC Summary Method Blank

Client: AMEC Earth & Environmental
Work Order: 0503155
Project: PVT Landfill

Sample ID: MB-11537 Batch ID: 11537 Test Code: SW8082 Prep Date: 3/31/2005 Units: mg/Kg
Client ID: Run ID: GC1A_050401A Analysis Date: 4/1/2005 Notes: C01

Analyte	Result	PQL	DF	Spike Value	Spike Ref Val	%REC	Limit	RPD Ref Val	RPD Limit	Qual	Note
Aroclor 1016	ND	0.033	1								
Aroclor 1221	ND	0.067	1								
Aroclor 1232	ND	0.033	1								
Aroclor 1242	ND	0.033	1								
Aroclor 1248	ND	0.033	1								
Aroclor 1254	ND	0.033	1								
Aroclor 1260	ND	0.033	1								
Surr: Decachlorobiphenyl	0.02914	0	1	0.03333	0	87.4	24 154	0			

Sample ID: MB-11537 Batch ID: 11537 Test Code: SW8082 Prep Date: 3/31/2005 Units: mg/Kg
Client ID: Run ID: GC6A_050406A Analysis Date: 4/7/2005 Notes:

Analyte	Result	PQL	DF	Spike Value	Spike Ref Val	%REC	Limit	RPD Ref Val	RPD Limit	Qual	Note
Aroclor 1016	ND	0.033	1								
Aroclor 1221	ND	0.067	1								
Aroclor 1232	ND	0.033	1								
Aroclor 1242	ND	0.033	1								
Aroclor 1248	ND	0.033	1								
Aroclor 1254	ND	0.033	1								
Aroclor 1260	ND	0.033	1								
Surr: Decachlorobiphenyl	0.02895	0	1	0.03333	0	86.9	24 154	0			

Sample ID: MB-11542 Batch ID: 11542 Test Code: SW7471 Prep Date: 4/1/2005 Units: mg/Kg
Client ID: Run ID: MERC_050401C Analysis Date: 4/1/2005 Notes:

Analyte	Result	PQL	DF	Spike Value	Spike Ref Val	%REC	Limit	RPD Ref Val	RPD Limit	Qual	Note
Mercury	ND	0.20	1								

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
%REC - % Recovery

S - Spike Recovery outside established recovery limits
R - RPD outside established recovery limits
DF - Dilution Factor
RPD - Relative Percent Difference

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

QC Summary**Method Blank**

Client: AMEC Earth & Environmental
Work Order: 0503155
Project: PVT Landfill

Sample ID: MB-11528 Batch ID: 11528 Test Code: SW6010B Prep Date: 3/30/2005 Units: mg/Kg
Client ID: Run ID: IC22_050331B Analysis Date: 3/31/2005 Notes:

Analyte	Result	PQL	DF	Spike Value	Spike Ref Val	%REC	%REC Limits	RPD Ref Val	RPD RPDLimit	Qual	Note
Arsenic	ND	5.0	1								
Barium	0.562	10	1							J	
Cadmium	ND	2.0	1								
Chromium	ND	5.0	1								
Lead	ND	20	1								
Selenium	ND	10	1								
Silver	ND	5.0	1								

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
%REC - % Recovery

S - Spike Recovery outside established recovery limits
R - RPD outside established recovery limits
DF - Dilution Factor
RPD - Relative Percent Difference

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

QC Summary Sample Matrix Spike

Client: AMEC Earth & Environmental
Work Order: 0503155
Project: PVT Landfill

Sample ID: 0503142-03AMS Batch ID: 11537 Test Code: SW8082 Prep Date: 3/31/2005 Units: mg/Kg
Client ID: Run ID: GC1A_050401A Analysis Date: 4/1/2005 Notes: C01

Analyte	Result	PQL	DF	Spike Value	Spike Ref Val	%REC	Limits	RPD Ref Val	RPD Limit	Qual	Note
Aroclor 1016	0.1514	0.033	1	0.167	0	90.7	65 128	0			
Aroclor 1260	0.1407	0.033	1	0.167	0	84.2	63 130	0			
Surr: Decachlorobiphenyl	0.02884	0	1	0.03333	0	86.5	24 154	0			

Sample ID: 0503142-03AMSD Batch ID: 11537 Test Code: SW8082 Prep Date: 3/31/2005 Units: mg/Kg
Client ID: Run ID: GC1A_050401A Analysis Date: 4/1/2005 Notes: C01

Analyte	Result	PQL	DF	Spike Value	Spike Ref Val	%REC	Limits	RPD Ref Val	RPD Limit	Qual	Note
Aroclor 1016	0.1497	0.033	1	0.167	0	89.6	65 128	0.1514	1.15	50	
Aroclor 1260	0.1406	0.033	1	0.167	0	84.2	63 130	0.1407	0.0047	50	
Surr: Decachlorobiphenyl	0.03008	0	1	0.03333	0	90.2	24 154	0	0	0	

Sample ID: 0503155-02AMS Batch ID: 11542 Test Code: SW7471 Prep Date: 4/1/2005 Units: mg/Kg
Client ID: EG 02 Run ID: MERC_050401C Analysis Date: 4/1/2005 Notes:

Analyte	Result	PQL	DF	Spike Value	Spike Ref Val	%REC	Limits	RPD Ref Val	RPD Limit	Qual	Note
Mercury	0.3917	0.20	1	0.333	0	118	75 125	0			

Sample ID: 0503155-02AMSD Batch ID: 11542 Test Code: SW7471 Prep Date: 4/1/2005 Units: mg/Kg
Client ID: EG 02 Run ID: MERC_050401C Analysis Date: 4/1/2005 Notes:

Analyte	Result	PQL	DF	Spike Value	Spike Ref Val	%REC	Limits	RPD Ref Val	RPD Limit	Qual	Note
Mercury	0.3645	0.19	1	0.3223	0	113	75 125	0.3917	7.18	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
%REC - % Recovery

S - Spike Recovery outside established recovery limits
R - RPD outside established recovery limits
DF - Dilution Factor
RPD - Relative Percent Difference

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

QC Summary Sample Matrix Spike

Client: AMEC Earth & Environmental
Work Order: 0503155
Project: PVT Landfill

Sample ID: 0503167-21BMS Batch ID: 11528 Test Code: SW6010B Prep Date: 3/30/2005 Units: mg/Kg-dry
Client ID: Run ID: ICP2_050331B Analysis Date: 3/31/2005 Notes:

Analyte	Result	PQL	DF	Spike Value	Spike Ref Val	%REC	Limit	RPD Ref Val	RPD Limit	Qual	Note
Arsenic	135.4	5.9	1	118.2	38.99	81.6	80 120	0			
Barium	181.7	12	1	118.2	80.46	85.7	80 120	0			
Cadmium	101.5	2.4	1	118.2	10.61	77	80 120	0		S	Q02
Chromium	201.5	5.9	1	118.2	104	82.5	80 120	0			
Lead	138.5	24	1	118.2	46.82	77.6	80 120	0		S	Q02
Selenium	74.99	12	1	118.2	0	63.5	80 120	0		S	Q02
Silver	3.001	5.9	1	11.82	0	25.4	80 120	0		JS	Q02

Sample ID: 0503167-21BMSD Batch ID: 11528 Test Code: SW6010B Prep Date: 3/30/2005 Units: mg/Kg-dry
Client ID: Run ID: ICP2_050331B Analysis Date: 3/31/2005 Notes:

Analyte	Result	PQL	DF	Spike Value	Spike Ref Val	%REC	Limit	RPD Ref Val	RPD Limit	Qual	Note
Arsenic	136.5	5.9	1	118.2	38.99	82.5	80 120	135.4	0.787	20	
Barium	174.2	12	1	118.2	80.46	79.3	80 120	181.7	4.21	20	S Q02
Cadmium	100.7	2.4	1	118.2	10.61	76.3	80 120	101.5	0.789	20	S Q02
Chromium	198.3	5.9	1	118.2	104	79.8	80 120	201.5	1.62	20	S Q02
Lead	135.9	24	1	118.2	46.82	75.4	80 120	138.5	1.92	20	S Q02
Selenium	75.28	12	1	118.2	0	63.7	80 120	74.99	0.385	20	S Q02
Silver	3.517	5.9	1	11.82	0	29.8	80 120	3.001	0	20	JS Q02

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside established recovery limits
J - Analyte detected below quantitation limits R - RPD outside established recovery limits
B - Analyte detected in the associated Method Blank DF - Dilution Factor
%REC - % Recovery RPD - Relative Percent Difference

Oceanic Analytical Laboratory, Inc.

Date: Apr 08, 2005

QC Summary Laboratory Control Spike

Client: AMEC Earth & Environmental
Work Order: 0503155
Project: PVT Landfill

Sample ID: LCS-11537 Batch ID: 11537 Test Code: SW8082 Prep Date: 3/31/2005 Units: mg/Kg
Client ID: Run ID: GC1A_050401A Analysis Date: 4/1/2005 Notes: C01

Analyte	Result	PQL	DF	Spike Value	Spike Ref Val	%REC	Limit	RPD Ref Val	RPD Limit	Qual	Note
Aroclor 1016	0.1428	0.033	1	0.167	0	85.5	65 128	0			
Aroclor 1260	0.1336	0.033	1	0.167	0	80	63 130	0			
Surr: Decachlorobiphenyl	0.0286	0	1	0.03333	0	85.8	24 154	0			

Sample ID: LCS-11537 Batch ID: 11537 Test Code: SW8082 Prep Date: 3/31/2005 Units: mg/Kg
Client ID: Run ID: GC6A_050406A Analysis Date: 4/7/2005 Notes:

Analyte	Result	PQL	DF	Spike Value	Spike Ref Val	%REC	Limit	RPD Ref Val	RPD Limit	Qual	Note
Aroclor 1016	0.1454	0.033	1	0.167	0	0	65 128	0			
Aroclor 1260	0.1351	0.033	1	0.167	0	0	63 130	0			
Surr: Decachlorobiphenyl	0.02878	0	1	0.03333	0	86.3	24 154	0			

Sample ID: LCS-11542 Batch ID: 11542 Test Code: SW7471 Prep Date: 4/1/2005 Units: mg/Kg
Client ID: Run ID: MERC_050401C Analysis Date: 4/1/2005 Notes:

Analyte	Result	PQL	DF	Spike Value	Spike Ref Val	%REC	Limit	RPD Ref Val	RPD Limit	Qual	Note
Mercury	0.3133	0.20	1	0.333	0	94.1	80 120	0			

Sample ID: LCS-11528 Batch ID: 11528 Test Code: SW6010B Prep Date: 3/30/2005 Units: mg/Kg
Client ID: Run ID: ICP2_050331B Analysis Date: 3/31/2005 Notes:

Analyte	Result	PQL	DF	Spike Value	Spike Ref Val	%REC	Limit	RPD Ref Val	RPD Limit	Qual	Note
Arsenic	92	5.0	1	100	0	92	80 120	0			
Barium	94.62	10	1	100	0.562	94.1	80 120	0			
Cadmium	92.28	2.0	1	100	0	92.3	80 120	0			
Chromium	90.8	5.0	1	100	0	90.8	80 120	0			
Lead	92.12	20	1	100	0	92.1	80 120	0			
Selenium	90.22	10	1	100	0	90.2	80 120	0			
Silver	8.618	5.0	1	10	0	86.2	80 120	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
%REC - % Recovery

S - Spike Recovery outside established recovery limits
R - RPD outside established recovery limits
DF - Dilution Factor
RPD - Relative Percent Difference



CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Laboratory Task Order No./P.O. No. _____

Project Number/Name 325190008-0004

Project Location PVT Landfill

Laboratory Deconic

Project Manager Russell Okuji (545-2462)

Sampler(s)/Affiliation BU / AMEC Earth & Environmental

ANALYSIS / METHOD / SIZE

8082 Total PCBs
6010 Metals
0503155-01

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Remarks	Total
EG 01	Soil	3/25/05 0950		0503155-01	1
EG 02		0955		-02	1
EG 03		0958		-03	1
EG 04		1002		-04	1
EG 05		1007		-05	1
EG 06		1009		-06	1
EG 07		1012		-07	1
EG 08		1018		-08	1
EG 09		1024		-09	1
EG 10		1030		-10	1
Total No. of Bottles/Containers					10

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: Byandis Ueyama Organization: AMEC

Received by: John P. ... Organization: AMEC

Relinquished by: John P. ... Organization: AMEC

Received by: John P. ... Organization: AMEC

Special Instructions/Remarks: Standard TAT

Delivery Method: ☒ In Person

☐ Common Carrier

☐ Lab Courier

☐ Other

SPECIFY

SPECIFY

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

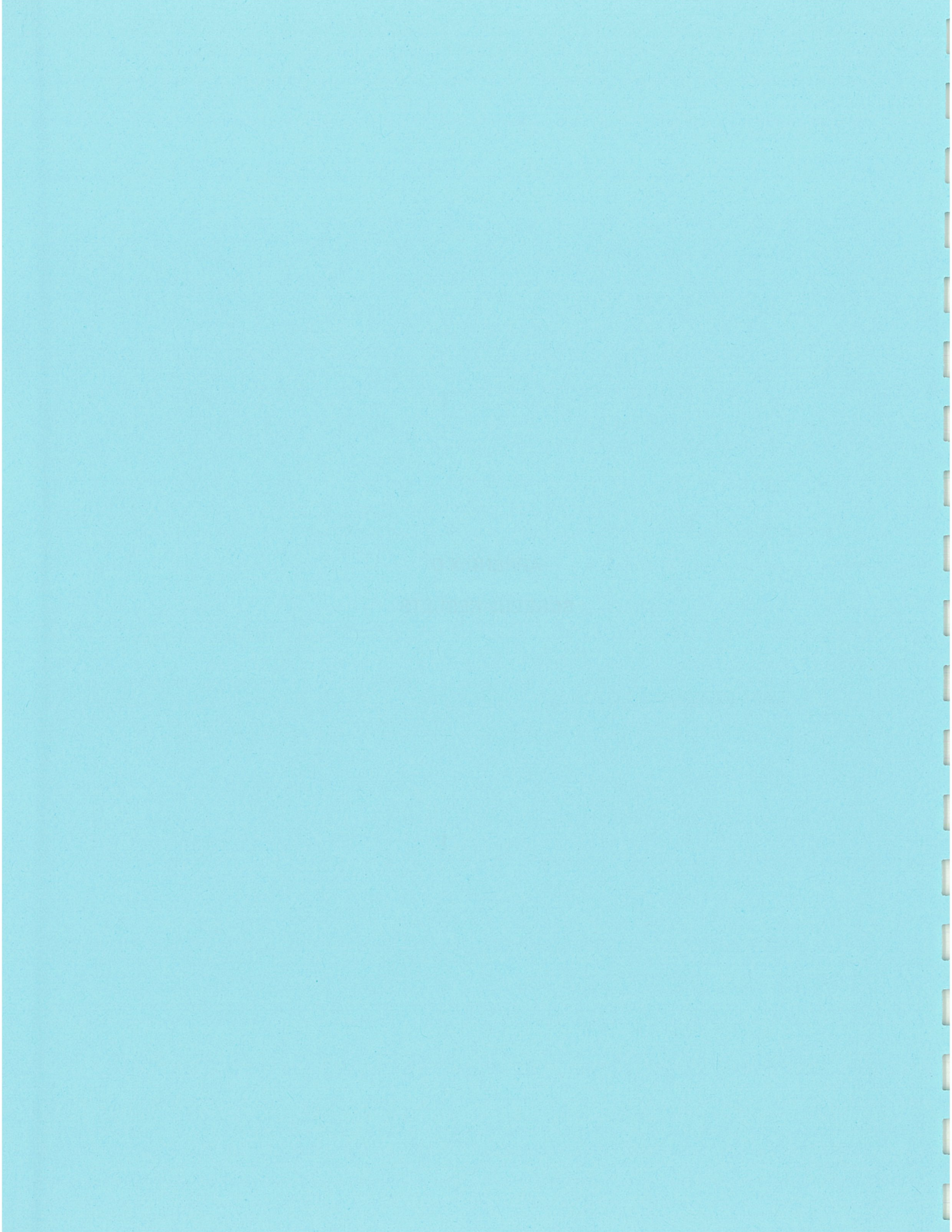
17

18

19

20

APPENDIX D
SCREEN3 RESULTS



***** SCREEN3 MODEL *****
**** VERSION DATED 96043 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):
PVT Landfill – Soil Disposal Activities

ENTER SOURCE TYPE: P FOR POINT
F FOR FLARE
A FOR AREA
V FOR VOLUME

ALSO ENTER ANY OF THE FOLLOWING OPTIONS ON THE SAME LINE:

N - TO USE THE NON-REGULATORY BUT CONSERVATIVE BRODE 2
MIXING HEIGHT OPTION,
nn.n - TO USE AN ANEMOMETER HEIGHT OTHER THAN THE REGULATORY
(DEFAULT) 10 METER HEIGHT.
SS - TO USE A NON-REGULATORY CAVITY CALCULATION ALTERNATIVE
Example - PN 7.0 SS (entry for a point source)

ENTER SOURCE TYPE AND ANY OF THE ABOVE OPTIONS:

a

ENTER EMISSION RATE (G/(S-M**2)):

6.6E-6

ENTER SOURCE RELEASE HEIGHT (M):

.1

ENTER LENGTH OF LARGER SIDE FOR AREA (M):

45

ENTER LENGTH OF SMALLER SIDE FOR AREA (M):

45

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):

1.8

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):

r

SEARCH THROUGH RANGE OF DIRECTIONS TO FIND THE MAXIMUM?

ENTER Y OR N:

y

ENTER CHOICE OF METEOROLOGY;

1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)

2 - INPUT SINGLE STABILITY CLASS

3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

3

ENTER STABILITY CLASS, 1(=A) TO 6(=F):

1

ENTER ANEMOMETER HEIGHT WIND SPEED (M/S):

2.8

USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

n

USE DISCRETE DISTANCES? ENTER Y OR N:

y

TO CEASE, ENTER A DISTANCE OF ZERO (0).

*** SCREEN DISCRETE DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING
DISTANCES ***

DIST	CONC	U10M	USTK	MIX HT	PLUME	MAX DIR
(M)	(UG/M**3)	STAB (M/S)	(M/S)	(M)	HT (M)	(DEG)

ENTER DISTANCE (M) (0 TO EXIT):

402

402.	.2251	1	2.8	2.8	896.0	.10	9.
------	-------	---	-----	-----	-------	-----	----

ENTER DISTANCE (M) (0 TO EXIT):

805

805.	.3067E-01	1	2.8	2.8	896.0	.10	17.
------	-----------	---	-----	-----	-------	-----	-----

ENTER DISTANCE (M) (0 TO EXIT):

1207

1207.	.9655E-02	1	2.8	2.8	896.0	.10	6.
-------	-----------	---	-----	-----	-------	-----	----

ENTER DISTANCE (M) (0 TO EXIT):

1609

1609.	.6688E-02	1	2.8	2.8	896.0	.10	7.
-------	-----------	---	-----	-----	-------	-----	----

ENTER DISTANCE (M) (0 TO EXIT):

2012

2012.	.5498E-02	1	2.8	2.8	896.0	.10	9.
-------	-----------	---	-----	-----	-------	-----	----

ENTER DISTANCE (M) (0 TO EXIT):

2414

2414.	.4690E-02	1	2.8	2.8	896.0	.10	10.
-------	-----------	---	-----	-----	-------	-----	-----

ENTER DISTANCE (M) (0 TO EXIT):

3219

3219.	.3650E-02	1	2.8	2.8	896.0	.10	17.
-------	-----------	---	-----	-----	-------	-----	-----

ENTER DISTANCE (M) (0 TO EXIT):

4828

DIST	CONC	U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA
(M)	(UG/M**3)	STAB (M/S)	(M/S)	(M)	HT (M)	Y (M)	Z (M) DWASH

4828. .2569E-02 1 2.8 2.8 896.0 .10 8.

ENTER DISTANCE (M) (0 TO EXIT):

6437

6437.	.2005E-02	1	2.8	2.8	896.0	.10	14.
-------	-----------	---	-----	-----	-------	-----	-----

ENTER DISTANCE (M) (0 TO EXIT):

8047

8047. .1656E-02 1 2.8 2.8 896.0 .10 6.

ENTER DISTANCE (M) (0 TO EXIT):

0

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION	MAX CONC	DIST TO	TERRAIN
PROCEDURE	(UG/M**3)	MAX (M)	HT (M)

SIMPLE TERRAIN	.2251	402.	0.
----------------	-------	------	----

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

y

***** SCREEN3 MODEL *****
**** VERSION DATED 96043 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):
PVT Landfill – Unlimited Erosion Model

ENTER SOURCE TYPE: P FOR POINT
F FOR FLARE
A FOR AREA
V FOR VOLUME

ALSO ENTER ANY OF THE FOLLOWING OPTIONS ON THE SAME LINE:

N - TO USE THE NON-REGULATORY BUT CONSERVATIVE BRODE 2
MIXING HEIGHT OPTION,
nn.n - TO USE AN ANEMOMETER HEIGHT OTHER THAN THE REGULATORY
(DEFAULT) 10 METER HEIGHT.
SS - TO USE A NON-REGULATORY CAVITY CALCULATION ALTERNATIVE
Example - PN 7.0 SS (entry for a point source)

ENTER SOURCE TYPE AND ANY OF THE ABOVE OPTIONS:

a

ENTER EMISSION RATE (G/(S-M**2)):

2.9E-8

ENTER SOURCE RELEASE HEIGHT (M):

.1

ENTER LENGTH OF LARGER SIDE FOR AREA (M):

45

ENTER LENGTH OF SMALLER SIDE FOR AREA (M):

45

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):

1.8

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):

r

SEARCH THROUGH RANGE OF DIRECTIONS TO FIND THE MAXIMUM?

ENTER Y OR N:

y

ENTER CHOICE OF METEOROLOGY;

1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)

2 - INPUT SINGLE STABILITY CLASS

3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

3

ENTER STABILITY CLASS, 1(=A) TO 6(=F):

1

ENTER ANEMOMETER HEIGHT WIND SPEED (M/S):

2.8

USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

n

USE DISCRETE DISTANCES? ENTER Y OR N:

y

TO CEASE, ENTER A DISTANCE OF ZERO (0).

*** SCREEN DISCRETE DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING
DISTANCES ***

DIST	CONC	U10M	USTK	MIX HT	PLUME	MAX DIR
(M)	(UG/M**3)	STAB (M/S)	(M/S)	(M)	HT (M)	(DEG)

ENTER DISTANCE (M) (0 TO EXIT):

402

402.	.9892E-03	1	2.8	2.8	896.0	.10	9.
------	-----------	---	-----	-----	-------	-----	----

ENTER DISTANCE (M) (0 TO EXIT):

805

805.	.1348E-03	1	2.8	2.8	896.0	.10	17.
------	-----------	---	-----	-----	-------	-----	-----

ENTER DISTANCE (M) (0 TO EXIT):

1207

1207.	.4242E-04	1	2.8	2.8	896.0	.10	6.
-------	-----------	---	-----	-----	-------	-----	----

ENTER DISTANCE (M) (0 TO EXIT):

1609

1609.	.2939E-04	1	2.8	2.8	896.0	.10	7.
-------	-----------	---	-----	-----	-------	-----	----

ENTER DISTANCE (M) (0 TO EXIT):

2012

2012.	.2416E-04	1	2.8	2.8	896.0	.10	9.
-------	-----------	---	-----	-----	-------	-----	----

ENTER DISTANCE (M) (0 TO EXIT):

2414

2414.	.2061E-04	1	2.8	2.8	896.0	.10	10.
-------	-----------	---	-----	-----	-------	-----	-----

ENTER DISTANCE (M) (0 TO EXIT):

3219

3219.	.1604E-04	1	2.8	2.8	896.0	.10	17.
-------	-----------	---	-----	-----	-------	-----	-----

ENTER DISTANCE (M) (0 TO EXIT):

4828

DIST	CONC	U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA
(M)	(UG/M**3)	STAB (M/S)	(M/S)	(M)	HT (M)	Y (M)	Z (M) DWASH

4828. .1129E-04 1 2.8 2.8 896.0 .10 8.

ENTER DISTANCE (M) (0 TO EXIT):

6437

6437.	.8812E-05	1	2.8	2.8	896.0	.10	14.
-------	-----------	---	-----	-----	-------	-----	-----

ENTER DISTANCE (M) (0 TO EXIT):

8047

8047. .7277E-05 1 2.8 2.8 896.0 .10 6.

ENTER DISTANCE (M) (0 TO EXIT):

0

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION	MAX CONC	DIST TO	TERRAIN
PROCEDURE	(UG/M**3)	MAX (M)	HT (M)

SIMPLE TERRAIN	.9892E-03	402.	0.
----------------	-----------	------	----

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

y

Expenditure

Expenditure

Expenditure

Expenditure

Expenditure

Expenditure

Expenditure

Expenditure

Expenditure

Expenditure

Expenditure

Expenditure

Expenditure

Expenditure

Expenditure

Expenditure

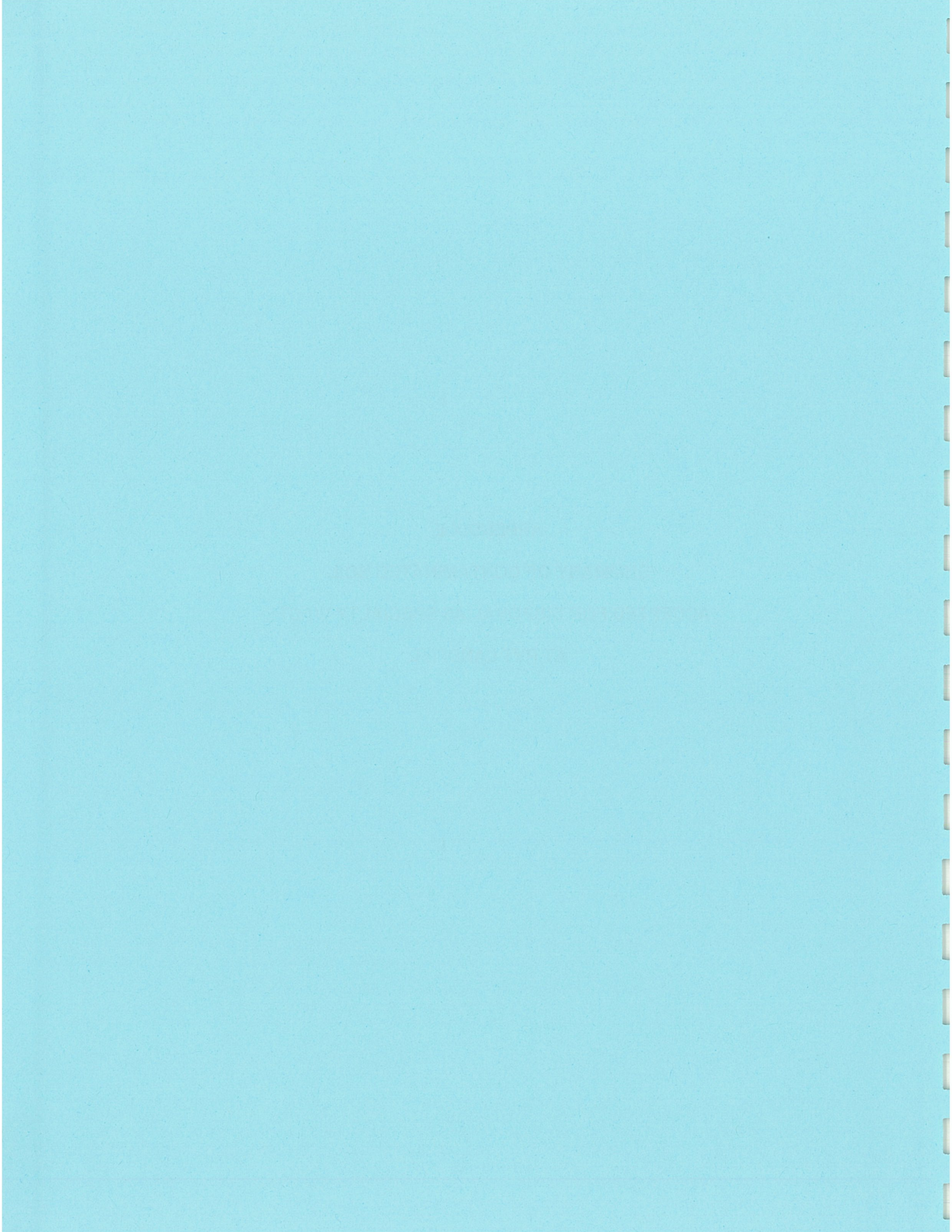
Expenditure

Expenditure

Expenditure

Expenditure

APPENDIX E
SUMMARY OF CONTAMINATED SOIL
ACCEPTED FOR DISPOSAL AS SPECIALTY WASTE
AT PVT LANDFILL



SUMMARY OF CONTAMINATED SOIL ACCEPTED FOR DISPOSAL AS SPECIAL WASTE AT PVT LANDFILL							
DATE	EST. QUANTITY	SOURCE OF MATERIAL	CONTAMINANT	MAX CONC. (mg/kg)	OTHER CONTAMINANTS		
Oct-04	250 - 350 tons	Hickam AFB Kipapa Fuel Storage Annex, Millilani	Lead	2,120	none listed		
Sep-04		Kapalama Incinerator soil	Lead		none listed		
Aug-04		Board of Water Supply, Kaimuki	Lead	840	diesel and oil		
Jun-04	1,500 cubic yards	Iwilei Pineapple Cannery, Home Depot, Honolulu	Lead	1,600	minor amounts of oil		
Jun-04	700 cubic yards	Iwilei Pineapple Cannery, Home Depot, Honolulu	Benzo(a)pyrene	2.5	minor amounts of oil		
Jun-04	5 cubic yards	Pioneer Sugar Mill, Lahaina, Maui	Lead	1,420	arsenic 104 mg/kg		
May-04	84 cubic yards	USCG Firing Range, Sand Island	Lead	600	none listed		
May-04	14 cubic yards	Chevron, Kaunakakai, Molokai	Lead	3,730	diesel and oil up to 64,900 mg/kg		
May-04	30 cubic yards	BYU Laie, Oahu	Arsenic	51.3	none listed		
Apr-04		USN Wasp Blvd, Ford Island, Oahu	Lead	1,310	none listed		
Mar-04	4.5 cubic yards	City Bank	Cadmium	130	diesel and oil up to 43,000 mg/kg		
Feb-04	3 tons	Tripler Army Medical Center, Honolulu	Lead	3,430	none listed		
Dec-03	6 cubic yards	Moanalua Shopping Center	Lead	550	heavy oil up to 30,000 mg/kg		
Nov-03	130 tons	USN Pearl Harbor Marina	Lead	880	none listed		
Oct-03	60 tons	USCG Kai Kai Hale Family Housing, Red Hill	PCBs	< 50 ppm	low levels of oil		
Sep-03	20 cubic yards	Mid Pac Lumber Wood Treatment Facility, 819 Ahua St.	Chromium	480	Arsenic 380 mg/kg		
Sep-03	270 tons	USN Pearl Harbor Marina	Lead	9,100	none listed		
Sep-03	100 cubic yards	USN Pearl Harbor Marina					
Aug-03	400 cubic yards	Kapalama Channel, Dillingham Blvd., Honolulu	Lead		diesel fuel, oil, PAHs, pesticides		
Aug-03	15 cubic yards	757 Kawaiahao Street, construction excavation & USTs	Lead	just over 400	diesel fuel, oil		
Jun-03	90 cubic yards	Pearl Harbor Dry Dock & Substation, Bldg. 20A, Pearl Harbor	Lead		diesel fuel		

indicators drive?

1- Soil profile sheets - for all.
2- Lab reports

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APPENDIX F
RISK CALCULATION SPREADSHEETS

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Potential Hazard Quotient Following Exposure via Inhalation

Scenario:	Current - Soil Disposal Activities
Receptor:	Resident, Adult

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Hazard Quotient (HQ)} = \frac{\text{Intake (mg/kg-day)}}{\text{RfD (mg/kg-day)}}$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	4.5E-05	
IR: Inhalation rate (m3/hr)	0.55	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	1	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	70	
AT: Averaging time (days)	365	ED * 365
RfD: Reference Dose (mg/kg-d)	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	RfD (mg/kg-d)	Inhalation HQ
Arsenic	380	1	3.23E-09	NA	NA
Barium*	6.70E+04	1	5.69E-07	1.40E-04	4.06E-03
Cadmium	450	1	3.82E-09	NA	NA
Chromium - Hexavalent	480	1	4.07E-09	2.20E-06	1.85E-03
Mercury*	3.10E+02	1	2.63E-09	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	4.3	1.86E-07	NA	NA
PCBs	50	1	4.24E-10	2.00E-05	2.12E-05
Hazard Index:					6.E-03

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Carcinogenic Risk Following Exposure via Inhalation

Scenario:	Current - Soil Disposal Activities
Receptor:	Resident, Adult

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Risk} = \text{Intake (mg/kg-day)} \times CSF [1/(\text{mg/kg-day})]$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m ³)	4.5E-05	
IR: Inhalation rate (m ³ /hr)	0.55	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	1	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	70	
AT: Averaging time (days)	25550	70 yr. * 365
CSF: Cancer Slope Factor [1/(mg/kg-day)]	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	CSF 1/(mg/kg-day)	Inhalation Risk
Arsenic	380	1	4.61E-11	15	6.91E-10
Barium*	6.70E+04	NA	NA	NA	NA
Cadmium	450	1	5.46E-11	6.3	3.44E-10
Chromium - Hexavalent	480	1	5.82E-11	NA	NA
Mercury*	3.10E+02	NA	NA	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	NA	NA	NA	NA
PCBs	50	1	6.06E-12	2	1.21E-11
Total Risk:					1.E-09

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Hazard Quotient Following Exposure via Inhalation

Scenario:	Current - Soil Disposal Activities
Receptor:	Resident , Child

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Hazard Quotient (HQ)} = \text{Intake (mg/kg-day)} / \text{RfD (mg/kg-day)}$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	4.5E-05	
IR: Inhalation rate (m3/hr)	0.41	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	1	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	16.6	
AT: Averaging time (days)	365	ED * 365
RfD: Reference Dose (mg/kg-d)	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	RfD (mg/kg-d)	Inhalation HQ
Arsenic	380	1	1.01E-08	NA	NA
Barium*	6.70E+04	1	1.79E-06	1.40E-04	1.28E-02
Cadmium	450	1	1.20E-08	NA	NA
Chromium - Hexavalent	480	1	1.28E-08	2.20E-06	5.82E-03
Mercury*	3.10E+02	1	8.27E-09	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	4.3	5.85E-07	NA	NA
PCBs	50	1	1.33E-09	2.00E-05	6.67E-05
Hazard Index:					2.E-02

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Carcinogenic Risk Following Exposure via Inhalation

Scenario:	Current - Soil Disposal Activities
Receptor:	Resident, Child

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Risk} = \text{Intake (mg/kg-day)} \times CSF [1/(\text{mg/kg-day})]$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	4.5E-05	
IR: Inhalation rate (m3/hr)	0.41	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	1	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	16.6	
AT: Averaging time (days)	25550	70 yr. * 365
CSF: Cancer Slope Factor [1/(mg/kg-day)]	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	CSF 1/(mg/kg-day)	Inhalation Risk
Arsenic	380	1	1.45E-10	15.1	2.19E-09
Barium*	6.70E+04	NA	NA	NA	NA
Cadmium	450	1	1.72E-10	6.3	1.08E-09
Chromium - Hexavalent	480	1	1.83E-10	NA	NA
Mercury*	3.10E+02	NA	NA	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	NA	NA	NA	NA
PCBs	50	1	1.91E-11	2	3.81E-11
Total Risk:					3.E-09

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Hazard Quotient Following Exposure via Inhalation

Scenario:	Current - Soil Disposal Activities
Receptor:	Resident, Adult

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Hazard Quotient (HQ)} = \frac{\text{Intake (mg/kg-day)}}{\text{RfD (mg/kg-day)}}$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	4.5E-05	
IR: Inhalation rate (m3/hr)	0.55	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	30	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	70	
AT: Averaging time (days)	10950	ED * 365
RfD: Reference Dose (mg/kg-d)	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	RfD (mg/kg-d)	Inhalation HQ
Arsenic	380	1	3.23E-09	NA	NA
Barium*	6.70E+04	1	5.69E-07	1.40E-04	4.06E-03
Cadmium	450	1	3.82E-09	NA	NA
Chromium - Hexavalent	480	1	4.07E-09	2.20E-06	1.85E-03
Mercury*	3.10E+02	1	2.63E-09	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	4.3	1.86E-07	NA	NA
PCBs	50	1	4.24E-10	2.00E-05	2.12E-05
Hazard Index:					6.E-03

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Carcinogenic Risk Following Exposure via Inhalation

Scenario:	Current - Soil Disposal Activities
Receptor:	Resident, Adult

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Risk} = \text{Intake (mg/kg-day)} \times CSF [1/(\text{mg/kg-day})]$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	4.5E-05	
IR: Inhalation rate (m3/hr)	0.55	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	30	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	70	
AT: Averaging time (days)	25550	70 yr. * 365
CSF: Cancer Slope Factor [1/(mg/kg-day)]	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	CSF 1/(mg/kg-day)	Inhalation Risk
Arsenic	380	1	1.38E-09	15	2.07E-08
Barium*	6.70E+04	NA	NA	NA	NA
Cadmium	450	1	1.64E-09	6.3	1.03E-08
Chromium - Hexavalent	480	1	1.75E-09	NA	NA
Mercury*	3.10E+02	NA	NA	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	NA	NA	NA	NA
PCBs	50	1	1.82E-10	2	3.64E-10
Total Risk:					3.E-08

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Hazard Quotient Following Exposure via Inhalation

Scenario: Current - Soil Disposal Activities
 Receptor: Resident , Child

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Hazard Quotient (HQ)} = \text{Intake (mg/kg-day)} / \text{RfD (mg/kg-day)}$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	4.5E-05	
IR: Inhalation rate (m3/hr)	0.41	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	6	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	16.6	
AT: Averaging time (days)	2190	ED * 365
RfD: Reference Dose (mg/kg-d)	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	RfD (mg/kg-d)	Inhalation HQ
Arsenic	380	1	1.01E-08	NA	NA
Barium*	6.70E+04	1	1.79E-06	1.40E-04	1.28E-02
Cadmium	450	1	1.20E-08	NA	NA
Chromium - Hexavalent	480	1	1.28E-08	2.20E-06	5.82E-03
Mercury*	3.10E+02	1	8.27E-09	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	4.3	5.85E-07	NA	NA
PCBs	50	1	1.33E-09	2.00E-05	6.67E-05
Hazard Index:					2.E-02

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Carcinogenic Risk Following Exposure via Inhalation

Scenario:	Current - Soil Disposal Activities
Receptor:	Resident, Child

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Risk} = \text{Intake (mg/kg-day)} \times CSF [1/(\text{mg/kg-day})]$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	4.5E-05	
IR: Inhalation rate (m3/hr)	0.41	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	6	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	16.6	
AT: Averaging time (days)	25550	70 yr. * 365
CSF: Cancer Slope Factor [1/(mg/kg-day)]	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	CSF 1/(mg/kg-day)	Inhalation Risk
Arsenic	380	1	8.69E-10	15.1	1.31E-08
Barium*	6.70E+04	NA	NA	NA	NA
Cadmium	450	1	1.03E-09	6.3	6.48E-09
Chromium - Hexavalent	480	1	1.10E-09	NA	NA
Mercury*	3.10E+02	NA	NA	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	NA	NA	NA	NA
PCBs	50	1	1.14E-10	2	2.29E-10
Total Risk:					2.E-08

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Carcinogenic Risk Following Exposure via Inhalation

Scenario:	Current - Soil Disposal Activities
Receptor:	Resident, Child

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Risk} = \text{Intake (mg/kg-day)} \times CSF [1/(\text{mg/kg-day})]$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	4.5E-05	
IR: Inhalation rate (m3/hr)	0.55	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	24	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	70	
AT: Averaging time (days)	25550	70 yr. * 365
CSF: Cancer Slope Factor [1/(mg/kg-day)]	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	CSF 1/(mg/kg-day)	Inhalation Risk
Arsenic	380	1	1.11E-09	15.1	1.67E-08
Barium*	6.70E+04	NA	NA	NA	NA
Cadmium	450	1	1.31E-09	6.3	8.25E-09
Chromium - Hexavalent	480	1	1.40E-09	NA	NA
Mercury*	3.10E+02	NA	NA	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	NA	NA	NA	NA
PCBs	50	1	1.46E-10	2	2.91E-10
Total Risk:					3.E-08

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Hazard Quotient Following Exposure via Inhalation

Scenario:	Current - Unlimited Erosion Model
Receptor:	Resident, Adult

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Hazard Quotient (HQ)} = \text{Intake (mg/kg-day)} / \text{RfD (mg/kg-day)}$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	2.0E-07	
IR: Inhalation rate (m3/hr)	0.55	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	1	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	70	
AT: Averaging time (days)	365	ED * 365
RfD: Reference Dose (mg/kg-d)	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	RfD (mg/kg-d)	Inhalation HQ
Arsenic	380	1	1.42E-11	NA	NA
Barium*	6.70E+04	1	2.50E-09	1.40E-04	1.79E-05
Cadmium	450	1	1.68E-11	NA	NA
Chromium - Hexavalent	480	1	1.79E-11	2.20E-06	8.14E-06
Mercury*	3.10E+02	NA	NA	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	NA	NA	NA	NA
PCBs	50	1	1.87E-12	2.00E-05	9.33E-08
Hazard Index:					3.E-05

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Carcinogenic Risk Following Exposure via Inhalation

Scenario:	Current - Unlimited Erosion Model
Receptor:	Resident, Adult

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Risk} = \text{Intake (mg/kg-day)} \times CSF [1/(\text{mg/kg-day})]$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	2.0E-07	
IR: Inhalation rate (m3/hr)	0.55	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	1	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	70	
AT: Averaging time (days)	25550	70 yr. * 365
CSF: Cancer Slope Factor [1/(mg/kg-day)]	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	CSF 1/(mg/kg-day)	Inhalation Risk
Arsenic	380	1	2.03E-13	15	3.04E-12
Barium*	6.70E+04	NA	NA	NA	NA
Cadmium	450	1	2.40E-13	6.3	1.51E-12
Chromium - Hexavalent	480	1	2.56E-13	NA	NA
Mercury*	3.10E+02	NA	NA	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	NA	NA	NA	NA
PCBs	50	1	2.66E-14	2	5.33E-14
Total Risk:					5.E-12

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Hazard Quotient Following Exposure via Inhalation

Scenario:	Current - Unlimited Erosion Model
Receptor:	Resident , Child

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Hazard Quotient (HQ)} = \text{Intake (mg/kg-day)} / \text{RfD (mg/kg-day)}$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	2.0E-07	
IR: Inhalation rate (m3/hr)	0.41	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	1	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	16.6	
AT: Averaging time (days)	365	ED * 365
RfD: Reference Dose (mg/kg-d)	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	RfD (mg/kg-d)	Inhalation HQ
Arsenic	380	1	4.46E-11	NA	NA
Barium*	6.70E+04	1	7.86E-09	1.40E-04	5.61E-05
Cadmium	450	1	5.28E-11	NA	NA
Chromium - Hexavalent	480	1	5.63E-11	2.20E-06	2.56E-05
Mercury*	3.10E+02	NA	NA	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	NA	NA	NA	NA
PCBs	50	1	5.86E-12	2.00E-05	2.93E-07
Hazard Index:					8.E-05

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Carcinogenic Risk Following Exposure via Inhalation

Scenario:	Current - Unlimited Erosion Model
Receptor:	Resident, Child

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Risk} = \text{Intake (mg/kg-day)} \times \text{CSF [1/(mg/kg-day)]}$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	2.0E-07	
IR: Inhalation rate (m3/hr)	0.41	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	1	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	16.6	
AT: Averaging time (days)	25550	70 yr. * 365
CSF: Cancer Slope Factor [1/(mg/kg-day)]	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	CSF 1/(mg/kg-day)	Inhalation Risk
Arsenic	380	1	6.37E-13	15.1	9.61E-12
Barium*	6.70E+04	NA	NA	NA	NA
Cadmium	450	1	7.54E-13	6.3	4.75E-12
Chromium - Hexavalent	480	1	8.04E-13	NA	NA
Mercury*	3.10E+02	NA	NA	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	NA	NA	NA	NA
PCBs	50	1	8.38E-14	2	1.68E-13
Total Risk:					1.E-11

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Hazard Quotient Following Exposure via Inhalation

Scenario:	Current - Unlimited Erosion Model
Receptor:	Resident, Adult

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Hazard Quotient (HQ)} = \frac{\text{Intake (mg/kg-day)}}{\text{RfD (mg/kg-day)}}$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	2.0E-07	
IR: Inhalation rate (m3/hr)	0.55	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	30	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	70	
AT: Averaging time (days)	10950	ED * 365
RfD: Reference Dose (mg/kg-d)	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	RfD (mg/kg-d)	Inhalation HQ
Arsenic	380	1	1.42E-11	NA	NA
Barium*	6.70E+04	1	2.50E-09	1.40E-04	1.79E-05
Cadmium	450	1	1.68E-11	NA	NA
Chromium - Hexavalent	480	1	1.79E-11	2.20E-06	8.14E-06
Mercury*	3.10E+02	1	1.16E-11	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	4.3	8.18E-10	NA	NA
PCBs	50	1	1.87E-12	2.00E-05	9.33E-08
Hazard Index:					3.E-05

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Carcinogenic Risk Following Exposure via Inhalation

Scenario:	Current - Unlimited Erosion Model
Receptor:	Resident, Adult

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Risk} = \text{Intake (mg/kg-day)} \times CSF [1/(\text{mg/kg-day})]$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	2.0E-07	
IR: Inhalation rate (m3/hr)	0.55	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	30	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	70	
AT: Averaging time (days)	25550	70 yr. * 365
CSF: Cancer Slope Factor [1/(mg/kg-day)]	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	CSF 1/(mg/kg-day)	Inhalation Risk
Arsenic	380	1	6.08E-12	15	9.11E-11
Barium*	6.70E+04	NA	NA	NA	NA
Cadmium	450	1	7.19E-12	6.3	4.53E-11
Chromium - Hexavalent	480	1	7.67E-12	NA	NA
Mercury*	3.10E+02	NA	NA	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	NA	NA	NA	NA
PCBs	50	1	7.99E-13	2	1.60E-12
Total Risk:					1.E-10

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Hazard Quotient Following Exposure via Inhalation

Scenario:	Current - Unlimited Erosion Model
Receptor:	Resident , Child

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Hazard Quotient (HQ)} = \text{Intake (mg/kg-day)} / \text{RfD (mg/kg-day)}$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	2.0E-07	
IR: Inhalation rate (m3/hr)	0.41	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	6	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	16.6	
AT: Averaging time (days)	2190	ED * 365
RfD: Reference Dose (mg/kg-d)	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	RfD (mg/kg-d)	Inhalation HQ
Arsenic	380	1	4.46E-11	NA	NA
Barium*	6.70E+04	1	7.86E-09	1.40E-04	5.61E-05
Cadmium	450	1	5.28E-11	NA	NA
Chromium - Hexavalent	480	1	5.63E-11	2.20E-06	2.56E-05
Mercury*	3.10E+02	1	3.64E-11	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	4.3	2.57E-09	NA	NA
PCBs	50	1	5.86E-12	2.00E-05	2.93E-07
Hazard Index:					8.E-05

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Carcinogenic Risk Following Exposure via Inhalation

Scenario:	Current - Unlimited Erosion Model
Receptor:	Resident, Child

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Risk} = \text{Intake (mg/kg-day)} \times CSF [1/(\text{mg/kg-day})]$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	2.0E-07	
IR: Inhalation rate (m3/hr)	0.41	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	6	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	16.6	
AT: Averaging time (days)	25550	70 yr. * 365
CSF: Cancer Slope Factor [1/(mg/kg-day)]	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	CSF 1/(mg/kg-day)	Inhalation Risk
Arsenic	380	1	3.82E-12	15.1	5.77E-11
Barium*	6.70E+04	NA	NA	NA	NA
Cadmium	450	1	4.52E-12	6.3	2.85E-11
Chromium - Hexavalent	480	1	4.82E-12	NA	NA
Mercury*	3.10E+02	NA	NA	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	NA	NA	NA	NA
PCBs	50	1	5.03E-13	2	1.01E-12
Total Risk:					9.E-11

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

Potential Carcinogenic Risk Following Exposure via Inhalation

Scenario:	Current - Unlimited Erosion Model
Receptor:	Resident, Child

$$\text{Intake (mg/kg-day)} = \frac{CA \times RP \times IR \times ET \times EF \times ED \times AAF}{BW \times AT}$$

$$\text{Risk} = \text{Intake (mg/kg-day)} \times CSF [1/(\text{mg/kg-day})]$$

Parameter (units)	Value	Reference
CA: Chemical conc. in soil (mg/kg)	see below	see below
RP: Resp. particulate conc. in air (mg/m3)	2.0E-07	
IR: Inhalation rate (m3/hr)	0.55	
ET: Exposure time (hr/day)	24	
EF: Exposure frequency (days/year)	365	
ED: Exposure duration (years)	24	
AAF: Absorption adj. factor (unitless)	see below	see below
BW: Body weight (kg)	70	
AT: Averaging time (days)	25550	70 yr. * 365
CSF: Cancer Slope Factor [1/(mg/kg-day)]	see below	see below

Compound	Conc. in soil (mg/kg)	AAF (unitless)	Intake (mg/kg-day)	CSF 1/(mg/kg-day)	Inhalation Risk
Arsenic	380	1	4.86E-12	15.1	7.34E-11
Barium*	6.70E+04	NA	NA	NA	NA
Cadmium	450	1	5.76E-12	6.3	3.63E-11
Chromium - Hexavalent	480	1	6.14E-12	NA	NA
Mercury*	3.10E+02	NA	NA	NA	NA
Selenium*	5.10E+03	NA	NA	NA	NA
Silver*	5.10E+03	NA	NA	NA	NA
PCBs	50	1	6.40E-13	2	1.28E-12
Total Risk:					1.E-10

* No analytical results available. Region IX Industrial Soil PRG concentration was used.

PVT Landfill

Log Date: 2004/09

Printing: 2004/12/16

Item Date	WS (mph)	AT (Deg F)	WD (Deg)	RH (%)	SR (W/m2)	RN (inch)
01	4.2	81.8	328.9	77.9	199.6	0.24
02	4.4	80.7	309.6	81.5	171.8	0.45
03	4.5	79.7	273.2	83.3	195.2	0.66
04	4.7	81.1	246.0	78.1	226.6	0.00
05	5.0	82.8	33.0	75.1	255.5	0.00
06	4.1	81.1	330.7	82.8	209.4	0.12
07	5.0	82.1	327.0	76.6	290.0	0.00
08	5.2	83.7	170.7	74.5	230.2	0.00
09	4.4	83.0	142.3	77.5	188.1	0.07
10	5.5	82.8	161.3	72.7	250.3	0.01
11	7.2	83.5	151.7	66.9	259.9	0.00
12	5.9	83.3	18.2	68.8	225.1	0.00
13	7.0	84.9	224.0	64.2	250.1	0.00
14	5.0	82.8	154.5	72.6	184.4	0.01
15	5.5	84.5	231.8	68.0	173.9	0.00
16	5.8	84.6	217.1	65.9	275.4	0.01
17	6.1	84.2	187.0	67.0	219.0	0.00
18	7.6	85.0	242.8	62.7	257.2	0.00
19	6.4	83.6	236.5	69.0	272.0	0.03
20	5.8	84.3	197.7	62.4	290.1	0.00
21	5.8	83.7	35.4	70.6	206.2	0.00
22	8.0	84.9	217.1	65.0	295.6	0.00
23	5.9	85.1	303.8	65.4	278.5	0.00
24	5.2	83.2	34.1	67.3	242.9	0.00
25	5.0	82.6	350.4	67.2	207.5	0.01
26	5.1	82.5	37.8	63.6	247.0	0.00
27	4.9	82.0	84.4	68.1	222.9	0.00
28	5.1	81.4	268.7	70.1	259.6	0.00
29	5.4	82.6	219.6	69.4	197.1	0.03
30	6.0	83.7	207.9	64.0	252.2	0.00
Sum	165.8	2491.2		2118.1	7033.3	1.64
Average	5.5	83.0	242.9	70.6	234.4	0.05
Maximum Date	8.0 22	85.1 23		83.3 3	295.6 22	0.66 3
Minimum Date	4.1 6	79.7 3		62.4 20	171.8 2	0.00 4
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

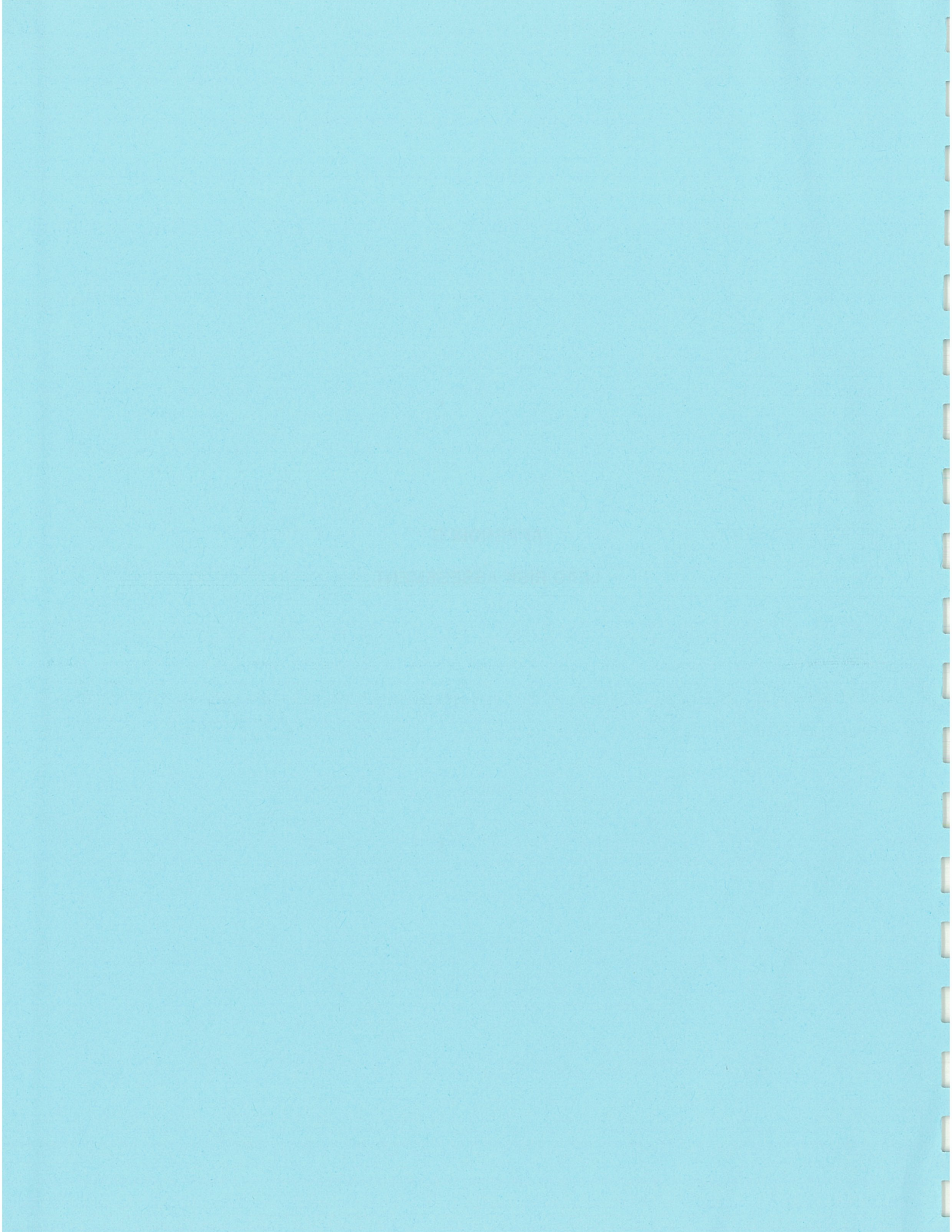
PVT Landfill

Log Date: 2004/10

Printing: 2004/12/16

Item Date	WS (mph)	AT (Deg F)	WD (Deg)	RH (%)	SR (W/m2)	RN (inch)
01	6.1	83.3	57.5	64.1	226.1	0.00
02	9.3	83.2	150.4	61.4	286.0	0.00
03	5.5	82.2	259.2	65.6	260.3	0.00
04	5.8	78.7	230.6	75.9	163.7	0.02
05	6.9	81.0	163.2	63.2	207.6	0.00
06	6.2	79.8	354.7	72.7	160.9	0.00
07	4.5	80.8	174.1	75.2	208.4	0.02
08	5.0	82.3	272.2	73.4	273.6	0.00
09	5.2	83.6	6.9	70.6	254.2	0.00
10	4.8	82.8	93.1	74.7	276.0	0.00
11	4.8	82.5	91.4	83.6	176.2	0.37
12	4.1	81.8	67.4	89.1	267.3	0.00
13	5.2	79.7	6.4	84.8	267.7	0.00
14	5.1	80.8	346.5	81.1	263.9	0.00
15	5.7	81.3	1.4	80.2	91.4	0.28
16	5.4	82.5	308.0	66.9	235.6	0.00
17	4.9	81.5	62.7	69.7	167.2	0.00
18	7.3	82.2	157.0	65.9	214.6	0.00
19	5.2	82.7	322.5	64.5	251.4	0.00
20	6.3	83.0	3.2	68.0	250.4	0.00
21	5.1	82.4	91.1	71.0	196.4	0.00
22	4.7	81.8	71.5	75.0	215.9	0.00
23	5.3	81.1	320.7	71.2	142.8	0.00
24	4.2	78.9	338.6	80.3	79.7	0.39
25	4.8	78.6	211.1	83.8	163.4	0.06
26	5.3	81.1	11.1	72.4	160.3	0.00
27	5.6	82.3	250.3	69.6	165.3	0.00
28	5.2	81.5	225.1	71.1	175.4	0.00
29	6.3	82.4	6.1	64.8	215.8	0.00
30	5.6	80.8	106.5	77.0	104.2	0.00
31	4.0	82.1	176.3	80.9	203.5	0.00
Sum	169.7	2528.7		2267.9	6325.0	1.14
Average	5.5	81.6	20.8	73.2	204.0	0.04
Maximum Date	9.3 2	83.6 9		89.1 12	286.0 2	0.39 24
Minimum Date	4.0 31	78.6 25		61.4 2	79.7 24	0.00 1
Standard # above	----	----	----	----	----	----
Valid	100%	100%	100%	100%	100%	100%

APPENDIX G
LEAD RISK ASSESSMENT



LEAD RISK ASSESSMENT SPREADSHEET

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL

USER'S GUIDE to version 7

INPUT	
MEDIUM	LEVEL
Lead in Air (ug/m ³)	0.01
Lead in Soil/Dust (ug/g)	9100.0
Lead in Water (ug/l)	2.5
% Home-grown Produce	0%
Respirable Dust (ug/m ³)	0.04502

OUTPUT (Adult/Child Resident, Soil Disposal Activities)							
	Percentile Estimate of Blood Pb (ug/dl)					PRG-99	PRG-95
	50th	90th	95th	98th	99th	(ug/g)	(ug/g)
BLOOD Pb, ADULT Res	0.2	0.4	0.5	0.6	0.7	63634551	89929985
BLOOD Pb, CHILD Res	0.6	1.0	1.2	1.5	1.7	32887609	48014192
BLOOD Pb, PICA Res	NA	NA	NA	NA	NA	NA	NA
BLOOD Pb, Worker	NA	NA	NA	NA	NA	NA	NA

EXPOSURE PARAMETERS			
	units	adults	children
Days per week	days/wk	7	
Days per week, Worker		NA	
Geometric Standard Deviation		1.6	
Blood lead level of concern (ug/dl)		10	
Skin area, Residential	cm ²	NA	NA
Skin area Worker	cm ²	NA	
Soil adherence	ug/cm ²	NA	NA
Dermal uptake constant	(ug/dl)/(ug/day)	NA	
Soil ingestion	mg/day	NA	NA
Soil ingestion, pica	mg/day		NA
Ingestion constant	(ug/dl)/(ug/day)	0.04	0.16
Bioavailability	unitless	0.44	
Breathing rate	m ³ /day	13.2	9.8
Inhalation constant	(ug/dl)/(ug/day)	0.082	0.192
Water ingestion	l/day	NA	NA
Food ingestion	kg/day	1.9	1.1
Lead in market basket	ug/kg	3.1	
Lead in home-grown produce	ug/kg	NA	

PATHWAYS						
Pathway	Residential			Occupational		
	Pathway contribution			Pathway contribution		
	PEF	ug/dl	percent	PEF	ug/dl	percent
Soil Contact	NA	NA	NA	NA	NA	NA
Soil Ingestion	NA	NA	NA	NA	NA	NA
Inhalation, bkgrnd		0.01	4%	NA	NA	NA
Inhalation	4.9E-8	0.00	0%	NA	NA	NA
Water Ingestion		NA	NA	NA	NA	NA
Food Ingestion, bkgrnd		0.23	95%	NA	NA	NA
Food Ingestion	NA	NA	NA	NA	NA	NA

Pathway	typical			with pica		
	Pathway contribution			Pathway contribution		
	PEF	ug/dl	percent	PEF	ug/dl	percent
Soil Contact	NA	NA	NA	NA	NA	NA
Soil Ingestion	NA	NA	NA	NA	NA	NA
Inhalation	8.5E-8	0.00	0%	NA	NA	NA
Inhalation, bkgrnd		0.02	3%	NA	NA	NA
Water Ingestion		NA	NA	NA	NA	NA
Food Ingestion, bkgrnd		0.54	97%	NA	NA	NA
Food Ingestion	NA	NA	NA	NA	NA	NA

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Journal of Management Inquiry

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Stefan Schöier

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References

References

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Exposure

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LEAD RISK ASSESSMENT SPREADSHEET

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL

USER'S GUIDE to version 7

INPUT	
MEDIUM	LEVEL
Lead in Air (ug/m ³)	0.01
Lead in Soil/Dust (ug/g)	9100.0
Lead in Water (ug/l)	2.5
% Home-grown Produce	0%
Respirable Dust (ug/m ³)	1.98E-04

OUTPUT (Adult/Child Resident, Unlimited Erosion Model)							
	Percentile Estimate of Blood Pb (ug/dl)					PRG-99	PRG-95
	50th	90th	95th	98th	99th	(ug/g)	(ug/g)
BLOOD Pb, ADULT Res	0.2	0.4	0.5	0.6	0.7	1.45E+10	2.05E+10
BLOOD Pb, CHILD Res	0.6	1.0	1.2	1.5	1.7	7.48E+09	1.09E+10
BLOOD Pb, PICA Res	NA	NA	NA	NA	NA	NA	NA
BLOOD Pb, Worker	NA	NA	NA	NA	NA	NA	NA

EXPOSURE PARAMETERS			
	units	adults	children
Days per week	days/wk	7	
Days per week, Worker		NA	
Geometric Standard Deviation		1.6	
Blood lead level of concern (ug/dl)		10	
Skin area, Residential	cm ²	NA	NA
Skin area Worker	cm ²	NA	
Soil adherence	ug/cm ²	NA	NA
Dermal uptake constant	(ug/dl)/(ug/day)	NA	
Soil ingestion	mg/day	NA	NA
Soil ingestion, pica	mg/day		NA
Ingestion constant	(ug/dl)/(ug/day)	0.04	0.16
Bioavailability	unitless	0.44	
Breathing rate	m ³ /day	13.2	9.8
Inhalation constant	(ug/dl)/(ug/day)	0.082	0.192
Water ingestion	l/day	NA	NA
Food ingestion	kg/day	1.9	1.1
Lead in market basket	ug/kg	3.1	
Lead in home-grown produce	ug/kg	NA	

PATHWAYS						
ADULTS	Residential			Occupational		
	Pathway contribution			Pathway contribution		
	PEF	ug/dl	percent	PEF	ug/dl	percent
Soil Contact	NA	NA	NA	NA	NA	NA
Soil Ingestion	NA	NA	NA	NA	NA	NA
Inhalation, bkgrnd		0.01	4%	NA	NA	NA
Inhalation	2.1E-10	0.00	0%	NA	NA	NA
Water Ingestion		NA	NA	NA	NA	NA
Food Ingestion, bkgrnd		0.23	96%	NA	NA	NA
Food Ingestion	0.0E+0	0.00	0%	NA	NA	NA

CHILDREN	typical			with pica		
	Pathway contribution			Pathway contribution		
	PEF	ug/dl	percent	PEF	ug/dl	percent
Soil Contact	NA	NA	NA	NA	NA	NA
Soil Ingestion	NA	NA	NA	NA	NA	NA
Inhalation	3.7E-10	0.00	0%	NA	NA	NA
Inhalation, bkgrnd		0.02	3%	NA	NA	NA
Water Ingestion		NA	NA	NA	NA	NA
Food Ingestion, bkgrnd		0.54	97%	NA	NA	NA
Food Ingestion	0.0E+0	0.00	0%	NA	NA	NA

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