Table Cd-4: Cadmium NPS and EQIS Duplicates							
Sample	Result	Analysis Date	Batch	Split	Result	Analysis Date	RPD
BOR 503	0.013	5/1/09	57284	ES-T11-080530	0.013	6/10/2009	0
BOR 506	0.17	5/11/09	57543	ES-S10-080523	0.017	6/10/2009	164
BOR 504	0.14	5/24/09	57792	ES-M05-080527	0.01	5/28/2009	173
BOR 507	0.018	6/9/09	58135	ES-O09-080610			
BOR 508	0.24	6/20/09	58565	ES-Q11-080606	0.32	5/11/2009	29
BOR 510	0.63	6/29/09	58728	OU-8HR-080605	0.015	5/1/2009	191
BOR 501	0.69	7/9/09	59163	WS-L04-080508	0.63	7/9/2009	9
BOR 505	0.79	7/20/09	59621	WS-K03-080509	0.66	7/8/2009	18
BOR 502	0.11	7/27/09	59757	WS-F05-080612	0.85	8/18/2009	154
BOR 509	0.015	7/27/09	59757	WS-E06-080613	0.019	7/27/2009	24
BOR 500	0.69	7/29/09	59889	WS-F01-080429	0.62	6/20/2009	11
BOR-809	0.098	12/15/09	63529	ES-K03-091103	0.39	11/25/2009	120
BOR-810	0.15	12/15/09	63529	ES-P07-091022	0.17	11/5/2009	13
BOR-811	0.18	12/15/09	63529	ES-R08-091021	0.038	11/5/2009	130
BOR 814	0.9	1/19/10	64128	ES-J05-091124	0.23	12/15/2009	119
BOR-818	0.014	3/5/10	65036	WS-F05-100111	0.011	1/27/2010	24
BOR-822	0.01	3/5/10	65036	ES-Q08-091228	0.68	1/19/2010	194
DUP-11	0.015	5/1/09	57147	ES-J03-080513	0.24	6/20/2009	176
DUP-17	0.013	5/1/09	57284	ES-F01-080529	0.22	5/11/2009	178
DUP-15	0.34	5/11/09	57543	ES-J02-080527	0.14	5/24/2009	83
DUP-18	0.26	5/11/09	57543	ES-J04-080530	0.013	5/24/2009	181
DUP-12	0.051	5/24/09	57792	ES-P06-080515	0.014	6/9/2009	114
DUP-16	0.11	5/24/09	57792	ES-P04-080528	0.013	6/9/2009	158
DUP-19	0.015	5/28/09	57847	ES-K05-080605	0.012	5/28/2009	22
DUP-13	0.012	6/9/09	58135	ES-T08-080522	0.014	6/10/2009	15
DUP-14	0.05	6/10/09	58212	ES-T10-080523	0.014	6/10/2009	113
DUP-3	0.46	6/20/09	58565	WS-C01-080501	0.48	6/20/2009	4
DUP-4	0.71	6/20/09	58565	WS-G01-080501	0.53	6/29/2009	29
DUP-5	2.5	6/29/09	58728	WS-I01-080501	2.3	6/29/2009	8
DUP-6	1.6	6/29/09	58728	WS-J01-080505	1.5	6/29/2009	6
DUP-7	1	7/9/09	59163	WS-M01-080505	0.98	7/9/2009	2
DUP-9	0.72	7/9/09	59163	WS-L04-080508	0.63	7/9/2009	13
DUP-1	2.8	7/13/09	59381	WS-E02-080428	2.8	7/20/2009	0
DUP-2	0.18	7/13/09	59381	WS-D02-080429	0.13	7/20/2009	32
DUP-8	0.55	7/20/09	59621	WS-M03-080507	0.46	8/5/2009	18
DUP-10	0.014	7/27/09	59757	WS-K04-080513	0.25	7/8/2009	179
DUP-37	0.57	10/5/09	61790	ES-S17-090910	0.015	9/23/2009	190
DUP-38	0.098	10/28/09	62499	ES-R11-090910	0.012	11/9/2009	156
DUP-39	0.043	10/28/09	62499	ES-C01-090910	0.012	11/9/2009	113
DUP-40	0.18	11/5/09	62754	ES-A01-102109			
DUP-44	0.69	1/19/10	64128	WS-M04-091218	0.038	1/5/2010	179
DUP-45	0.92	1/19/10	64128	ES-J05-091124	0.23	12/15/2009	120
DUP-46	0.29	1/19/10	64206	ES-R08-091021	0.038	11/5/2009	154
DUP-47	0.011	1/27/10	64333	ES-K02-091103	0.1	11/25/2009	160
DUP-48	0.074	3/5/10	65036	WS-M03-091217	0.066	1/5/2010	11

Table Cd-4: Cadmium NPS and EQIS Duplicates (continued)

RPD of Sample Splits	
Mean	88.068
Median	112.500
Standard Deviation	73.425
Sample Variance	5391.227
Kurtosis	-1.780
Skewness	0.097
Range	194.432
Minimum	0.000
Maximum	194.432
Sum	3786.919
Count	43.000
Largest(2)	190.698
Smallest(2)	0.000

Table Cd-5: Cadmium EQIS CRMs							
Results of Duplicate Analysis of EQIS CRMs							
Sample	Result	Date	Batch	Detect	Average	RPD
ES-Z11-080605A	1.1	5/1/09	57147	Y		
ES-Z11-080605B	1.1	5/1/09	57147	Y	1.1	0
ES-Z09-080529A	0.98	5/1/09	57284	Y		
ES-Z09-080529B	0.96	5/1/09	57284	Y	0.97	2
ES-Z12-080606A	0.98	5/1/09	57284	Y		
ES-Z12-080606B	0.97	5/1/09	57284	Y	0.975	1
ES-Z05-080519A	1.1	5/11/09	57543	Y		
ES-Z05-080519B	1.1	5/11/09	57543	Y	1.1	0
ES-Z06-080520A	1.1	5/11/09	57543	Y		
ES-Z06-080520B	1.1	5/11/09	57543	Y	1.1	0
ES-Z07-080522A	1.3	5/24/09	57792	Y		
ES-Z07-080522B	1.2	5/24/09	57792	Y	1.25	8
ES-Z13-080610A	1	5/28/09	57847	Y		
ES-Z13-080610B	1.2	5/28/09	57847	Y	1.1	18
ES-Z10-080602A	1	6/9/09	58135	Y		
ES-Z10-080602B	1.3	6/9/09	58135	Y	1.15	26
ES-Z08-080527A	1.7	6/10/09	58212	Y		
ES-Z08-080527B	1.5	6/10/09	58212	Y	1.6	13
ES-Z14-080611A	1.4	6/20/09	58565	Y		
ES-Z14-080611B	1.4	6/20/09	58565	Y	1.4	0
ES-Z06-080520C	1.3	6/29/09	58728	Y		
ES-Z06-080520D	1.3	6/29/09	58728	Y	1.3	0
ES-Z05-080519C	1.2	7/9/09	59163	Y		
ES-Z05-080519D	1.3	7/9/09	59163	Y	1.25	8
ES-Z19-080624A	1.3	7/13/09	59381	Y		
ES-Z19-080624B	1.4	7/13/09	59381	Y	1.35	7
WS-Z17-080618A	1.4	7/13/09	59381	Y		
WS-Z17-080618B	1.3	7/13/09	59381	Y	1.35	7
WS-Z15-080613A	1.3	7/20/09	59621	Y		
WS-Z15-080613B	1.3	7/20/09	59621	Y	1.3	0
WS-Z18-080620A	1.3	7/20/09	59621	Y		
WS-Z18-080620B	1.3	7/20/09	59621	Y	1.3	0
WS-Z16-080617A	*1.3*	7/29/09	59889	Y		
WS-Z16-080617B	1.3	7/29/09	59889	Y	1.3	0
ES-Z22-091021A	0.29	11/5/09	62754	Y		
ES-Z22-091021B	0.3	11/5/09	62754	Y	0.295	3
ES-Z23-091022A	1.5	11/5/09	62754	Y		
ES-Z23-091022B	1.5	11/5/09	62754	Y	1.5	0
ES-Z24-091103A	1.2	11/25/09	63215	Y		
ES-Z24-091103B	1.2	11/25/09	63215	Y	1.2	0
ES-Z25-091104A	1.3	11/25/09	63215	Y		
ES-Z25-091104B	1.1	11/25/09	63215	Y	1.2	17
ES-Z26-091105A	0.95	12/8/09	63405	Y		
ES-Z26-091105B	0.96	12/8/09	63405	Y	0.955	1
ES-Z27-091106A	0.95	12/8/09	63405	Y		
ES-Z27-091106B	0.94	12/8/09	63405	Y	0.945	1
WS-Z29-091217A	0.95	1/5/10	63970	Y		
WS-Z29-091217B	1	1/5/10	63970	Y	0.975	5
WS-Z30-091230A	1.2	1/19/10	64128	Y		
WS-Z30-091230B	1.2	1/19/10	64128	Y	1.2	0

Table Cd-5: Cadmium EQIS CRMs (continued)

Results of Duplicate Analysis of EQIS CRMs

Sample	Result	Date	Batch	Detect	Average	RPD
WS-Z31-100107A	1.2	1/19/10	64206	Y		
WS-Z31-100107B	1.1	1/19/10	64206	Y	1.15	8.7
WS-Z32-100113A	1.1	1/27/10	64333	Y		
WS-Z32-100113B	1.1	1/27/10	64333	Y	1.1	0.0
ES-Z33-100225A	1.1	3/5/10	65036	Y		
ES-Z33-100225B	1.1	3/5/10	65036	Y	1.1	0.0

Analysis of EQIS CRMs	
Mean	1
Median	1
Standard Deviation	0
Sample Variance	0
Kurtosis	5
Skewness	-1
Range	1
Minimum	0
Maximum	2
Sum	65
Count	56
Largest(2)	2
Smallest(2)	0

RPD of EQIS CRMs	
Mean	5
Median	1
Standard Deviation	7
Sample Variance	46
Kurtosis	3
Skewness	2
Range	26
Minimum	0
Maximum	26
Sum	127
Count	28
Largest(2)	18
Smallest(2)	0

Table Cd-6: Cadmium Laboratory MS and LCS					
Matrix Spike Recovery %	Batch	Order	LCS Recovery %	Batch	Order
95	7160081	4	92	7160081	4
82	49187	7	91	49187	7
78	49189	8	80	49189	8
92	49537	28	93	49537	28
89	49539	30	95	49539	30
96	54626-627	68	92	54626-627	68
88	54821-822	71	90	54821-822	71
84	54891-892	77	90	54891-892	77
85	54915-916	78	90	54915-916	78
86	57147	109	89	57147	109
82	57223	112	90	57223	112
89	57543	127	98	57543	127
84	57792	136	96	57792	136
80	57847	137	91	57847	137
66	58135	149	84	58135	149
118	58212	150	117	58212	150
96	58565	162	107	58565	162
73	58728	166	85	58728	166
82	59163	172	94	59163	172
88	59381	186	93	59381	186
88	59621	190	91	59621	190
82	59757	199	88	59757	199
84	59889	204	91	59889	204
96	60088	213	99	60088	213
87	60439	224	94	60439	224
89	61414	244	90	61414	244
90	61790	250	99	61790	250
96	62499	259	109	62499	259
97	62754	265	110	62754	265
88	63215	281	100	63215	281
85	63405	291	91	63405	291
82	63529	294	85	63529	294
85	63970	301	84	63970	301
86	64128	313	96	64128	313
79	64206	314	89	64206	314
73	64333	330	80	64333	330
79	64435	339	87	64435	339
81	65036	349	89	65036	349
76	70142	367	87	70142	367

Average MS Recovery = 86 % Average LCS Recovery = 93 %
Minimum MS Recovery = 66 % Minimum LCS Recovery = 80 %

Table Cd-6: Cadmium Laboratory MS and LCS (Graph)

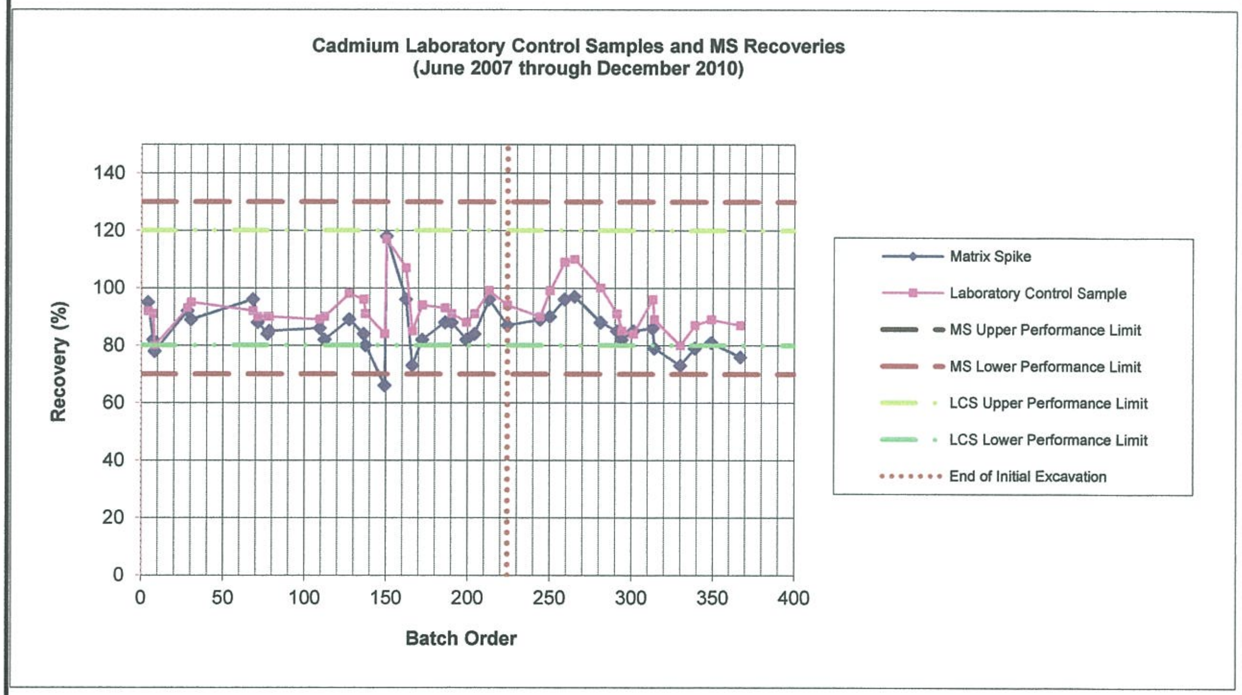
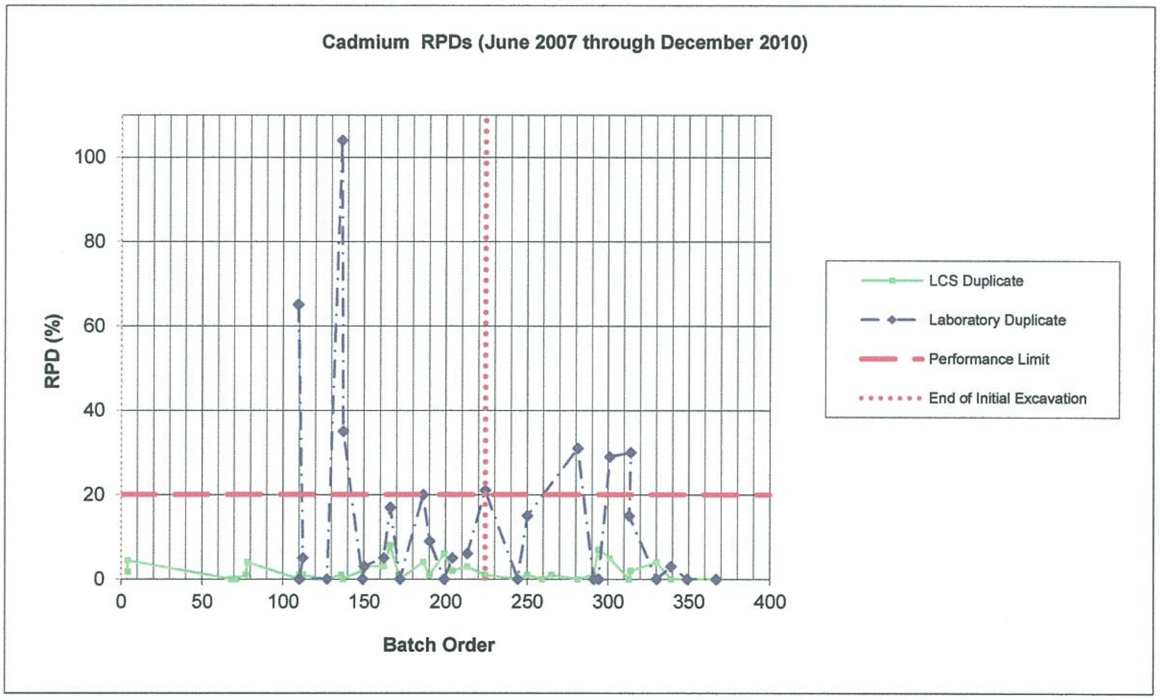


Table Cd-7: Cadmium - Laboratory Duplicates and LCS Duplicates					
Laboratory Duplicate RPD	Batch	Order	LCS Duplicate RPD	Batch	Order
65	57147	109	1.8	7160081	4
5	57223	112	4.4	7160081	4
0	57284	110	0	54626-627	68
0	57543	127	0	54821-822	71
104	57792	136	1	54891-892	77
35	57847	137	4	54915-916	78
0	58135	149	0	57147	109
3	58212	150	1	57223	112
5	58565	162	1	57284	110
17	58728	166	0	57543	127
0	59163	172	1	57792	136
20	59381	186	0	57847	137
9	59621	190	2	58135	149
0	59757	199	3	58212	150
5	59889	204	3	58565	162
6	60088	213	8	58728	166
21	60439	224	0	59163	172
0	61414	244	4	59381	186
15	61790	250	1	59621	190
31	63215	281	6	59757	199
0	63405	291	2	59889	204
0	63529	294	3	60088	213
29	63970	301	1	60439	224
30	64206	314	0	61414	244
15	64128	313	1	61790	250
0	64333	330	0	62499	259
3	64435	339	1	62754	265
0	65036	349	0	63215	281
0	70142	367	1	63405	291
			7	63529	294
			5	63970	301
			0	64128	313
			2	64206	314
			4	64333	330
			0	64435	339
			0	65036	349
			0	70142	367
Average Duplicate RPD = 14 %			Average LCS RPD = 2 %		
Maximum Duplicate RPD = 104 %			Maximum LCS RPD = 8 %		

Table Cd-7: Cadmium - Laboratory Duplicates and LCS Duplicates (Graph)



CADMIUM Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	A1	ES-A01-090910	CADMIUM	0.1	09/23/09	61414	Y	ES-A01-090910
East Site	A1	ES-A01-102109	CADMIUM	0.18	11/05/09	62754	Y	DUP-40
East Site	B1	ES-B01-080623	CADMIUM	0.13	05/01/09	57147	Y	ES-B01-080623
East Site	C1	ES-C01-080624	CADMIUM	0.063	05/01/09	57147	Y	ES-C01-080624
East Site	C1	ES-C01-090910	CADMIUM	0.043	10/28/09	62499	Y	DUP-39
East Site	C1	ES-C01-090910	CADMIUM	0.012	11/09/09	61414	N	ES-C01-090910
East Site	D1	ES-D01-080624	CADMIUM	0.02	06/09/09	58135	N	ES-D01-080624
East Site	E1	ES-E01-090910	CADMIUM	0.018	09/23/09	61414	N	ES-E01-090910
East Site	E2	ES-E02-090910	CADMIUM	0.014	09/23/09	61414	N	ES-E02-090910
East Site	F1	ES-F01-080529	CADMIUM	0.013	05/01/09	57284	N	DUP-17
East Site	F1	ES-F01-080529	CADMIUM	0.22	05/11/09	57543	Y	ES-F01-080529
East Site	G1	ES-G01-080529	CADMIUM	0.23	05/11/09	57543	Y	ES-G01-080529
East Site	G2	ES-G02-080605	CADMIUM	0.28	05/11/09	57543	Y	ES-G02-080605
East Site	H1	ES-H01-080528	CADMIUM	0.38	05/11/09	57543	Y	ES-H01-080528
East Site	H1	ES-H01-091105	CADMIUM	0.01	12/08/09	63405	N	ES-H01-091105
East Site	H2	ES-H02-080515	CADMIUM	0.31	05/11/09	57543	Y	ES-H02-080515
East Site	H3	ES-H03-080605	CADMIUM	0.017	05/24/09	57792	Y	ES-H03-080605
East Site	I1	ES-I01-080529	CADMIUM	0.12	05/24/09	57792	Y	ES-I01-080529
East Site	I1	ES-I01-091105	CADMIUM	0.011	12/08/09	63405	N	ES-I01-091105
East Site	I2	ES-I02-080514	CADMIUM	0.014	05/24/09	57792	N	ES-I02-080514
East Site	I3	ES-I03-080513	CADMIUM	0.012	05/24/09	57792	N	ES-I03-080513
East Site	I4	ES-I04-080602	CADMIUM	0.055	05/24/09	57792	Y	ES-I04-080602
East Site	I4	ES-I04-091106	CADMIUM	0.019	12/08/09	63405	N	ES-I04-091106
East Site	J1	ES-J01-080529	CADMIUM	0.012	05/24/09	57792	N	ES-J01-080529
East Site	J2	ES-J02-080527	CADMIUM	0.34	05/11/09	57543	Y	DUP-15
East Site	J2	ES-J02-080527	CADMIUM	0.14	05/24/09	57792	Y	ES-J02-080527
East Site	J2	ES-J02-091105	CADMIUM	0.0097	12/08/09	63405	N	ES-J02-091105
East Site	J3	ES-J03-080513	CADMIUM	0.015	05/01/09	57147	N	DUP-11
East Site	J3	ES-J03-080513	CADMIUM	0.24	06/20/09	58565	Y	ES-J03-080513
East Site	J3	ES-J03-091103	CADMIUM	0.45	11/25/09	63215	Y	ES-J03-091103
East Site	J4	ES-J04-080530	CADMIUM	0.26	05/11/09	57543	Y	DUP-18
East Site	J4	ES-J04-080530	CADMIUM	0.013	05/24/09	57792	N	ES-J04-080530
East Site	J4	ES-J04-091103	CADMIUM	0.5	11/25/09	63215	Y	ES-J04-091103
East Site	J5	ES-J05-080602	CADMIUM	0.24	05/24/09	57792	Y	ES-J05-080602
East Site	J5	ES-J05-091124	CADMIUM	0.23	12/15/09	63529	Y	ES-J05-091124
East Site	J5	ES-J05-091124	CADMIUM	0.92	01/19/10	64128	Y	DUP-45
East Site	J5	ES-J05-091124	CADMIUM	0.92	01/19/10	64128	Y	DUP-45
East Site	J5	ES-J05-091124	CADMIUM	0.92	01/19/10	64128	Y	DUP-45
East Site	J5	ES-J05-091124	CADMIUM	0.92	01/19/10	64128	Y	DUP-45
East Site	J5	ES-J05-100112	CADMIUM	0.013	01/27/10	64333	N	ES-J05-100112
East Site	J5	ES-J05-100112	CADMIUM	0.013	01/27/10	64333	N	ES-J05-100112
East Site	J5	ES-J05-100112	CADMIUM	0.013	01/27/10	64333	N	ES-J05-100112
East Site	J5	ES-J05-100112	CADMIUM	0.013	01/27/10	64333	N	ES-J05-100112
East Site	J5	ES-J05-100112	CADMIUM	0.013	01/27/10	64333	N	ES-J05-100112
East Site	J5	ES-J05-100112	CADMIUM	0.013	01/27/10	64333	N	ES-J05-100112
East Site	J5	ES-J05-100112	CADMIUM	0.013	01/27/10	64333	N	ES-J05-100112
East Site	J5	ES-J05-100112	CADMIUM	0.013	01/27/10	64333	N	ES-J05-100112
East Site	K1	ES-K01-080602	CADMIUM	0.013	05/24/09	57792	N	ES-K01-080602
East Site	K2	ES-K02-080602	CADMIUM	0.26	05/11/09	57543	Y	ES-K02-080602
East Site	K2	ES-K02-091103	CADMIUM	0.1	11/25/09	63215	Y	ES-K02-091103

CADMIUM Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	K2	ES-K02-091103	CADMIUM	0.011	01/27/10	64333	N	DUP-47
East Site	K2	ES-K02-091103	CADMIUM	0.011	01/27/10	64333	N	DUP-47
East Site	K2	ES-K02-091103	CADMIUM	0.011	01/27/10	64333	N	DUP-47
East Site	K2	ES-K02-091103	CADMIUM	0.011	01/27/10	64333	N	DUP-47
East Site	K3	ES-K03-080514	CADMIUM	0.12	05/24/09	57792	Y	ES-K03-080514
East Site	K3	ES-K03-091103	CADMIUM	0.39	11/25/09	63215	Y	ES-K03-091103
East Site	K4	ES-K04-080527	CADMIUM	0.011	05/28/09	57847	N	ES-K04-080527
East Site	K5	ES-K05-080605	CADMIUM	0.012	05/28/09	57847	N	ES-K05-080605
East Site	K5	ES-K05-080605	CADMIUM	0.015	05/28/09	57847	N	DUP-19
East Site	K7	ES-K07-080611	CADMIUM	0.32	05/01/09	57284	Y	ES-K07-080611
East Site	K7	ES-K07-090924	CADMIUM	1.6	10/05/09	61790	Y	ES-K07-090924
East Site	K7	ES-K07-091123	CADMIUM	0.16	12/14/09	63529	Y	ES-K07-091123
East Site	L1	ES-L01-080625	CADMIUM	0.014	05/28/09	57847	N	ES-L01-080625
East Site	L2	ES-L02-080625	CADMIUM	0.015	05/28/09	57847	N	ES-L02-080625
East Site	L3	ES-L03-080604	CADMIUM	0.011	05/28/09	57847	N	ES-L03-080604
East Site	L3	ES-L03-091104	CADMIUM	0.11	11/25/09	63215	Y	ES-L03-091104
East Site	L4	ES-L04-080604	CADMIUM	0.21	06/20/09	58565	Y	ES-L04-080604
East Site	L4	ES-L04-091104	CADMIUM	0.17	11/25/09	63215	Y	ES-L04-091104
East Site	L5	ES-L05-091104	CADMIUM	0.55	11/25/09	63215	Y	ES-L05-091104
East Site	L6	ES-L06-091104	CADMIUM	0.19	11/25/09	63215	Y	ES-L06-091104
East Site	M1	ES-M01-080527	CADMIUM	0.013	05/28/09	57847	N	ES-M01-080527
East Site	M2	ES-M02-080519	CADMIUM	0.016	05/28/09	57847	N	ES-M02-080519
East Site	M3	ES-M03-091022	CADMIUM	0.12	11/05/09	62754	Y	ES-M03-091022
East Site	M3	ES-M03-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-M03-091228
East Site	M3	ES-M03-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-M03-091228
East Site	M3	ES-M03-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-M03-091228
East Site	M3	ES-M03-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-M03-091228
East Site	M3	ES-M03-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-M03-091228
East Site	M3	ES-M03-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-M03-091228
East Site	M3	ES-M03-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-M03-091228
East Site	M3	ES-M03-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-M03-091228
East Site	M4	ES-M04-080515	CADMIUM	0.015	05/28/09	57847	N	ES-M04-080515
East Site	M5	ES-M05-080527	CADMIUM	0.01	05/28/09	57847	N	ES-M05-080527
East Site	M6	ES-M06-080520	CADMIUM	0.15	05/28/09	57847	Y	ES-M06-080520
East Site	M6	ES-M06-091105	CADMIUM	0.0093	12/08/09	63405	N	ES-M06-091105
East Site	M7	ES-M07-091105	CADMIUM	0.02	12/08/09	63405	N	ES-M07-091105
East Site	M8	ES-M08-080610	CADMIUM	0.095	05/01/09	57284	Y	ES-M08-080610
East Site	M8	ES-M08-090924	CADMIUM	0.67	10/05/09	61790	Y	ES-M08-090924
East Site	M8	ES-M08-091123	CADMIUM	0.15	12/15/09	63529	Y	ES-M08-091123
East Site	M9	ES-M09-080611	CADMIUM	0.013	05/01/09	57284	N	ES-M09-080611
East Site	N2	ES-N02-080528	CADMIUM	0.016	05/28/09	57847	N	ES-N02-080528
East Site	N3	ES-N03-080520	CADMIUM	0.014	05/28/09	57847	N	ES-N03-080520
East Site	N4	ES-N04-080519	CADMIUM	0.014	05/28/09	57847	N	ES-N04-080519
East Site	N5	ES-N05-080519	CADMIUM	0.014	05/28/09	57847	N	ES-N05-080519
East Site	N5	ES-N05-091105	CADMIUM	0.0092	12/08/09	63405	N	ES-N05-091105
East Site	N6	ES-N06-080527	CADMIUM	0.016	06/09/09	58135	N	ES-N06-080527
East Site	N7	ES-N07-080530	CADMIUM	0.012	06/09/09	58135	N	ES-N07-080530
East Site	N7	ES-N07-100225	CADMIUM	0.013	03/05/10	65036	N	ES-N07-100225
East Site	N7	ES-N07-100225	CADMIUM	0.013	03/05/10	65036	N	ES-N07-100225
East Site	N7	ES-N07-100225	CADMIUM	0.013	03/05/10	65036	N	ES-N07-100225

CADMIUM Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	N7	ES-N07-100225	CADMIUM	0.013	03/05/10	65036	N	ES-N07-100225
East Site	N7	ES-N07-100225	CADMIUM	0.013	03/05/10	65036	N	ES-N07-100225
East Site	N7	ES-N07-100225	CADMIUM	0.013	03/05/10	65036	N	ES-N07-100225
East Site	N7	ES-N07-100225	CADMIUM	0.013	03/05/10	65036	N	ES-N07-100225
East Site	N7	ES-N07-100225	CADMIUM	0.013	03/05/10	65036	N	ES-N07-100225
East Site	N8	ES-N08-080610	CADMIUM	0.013	05/01/09	57284	N	ES-N08-080610
East Site	N8	ES-N08-090924	CADMIUM	0.54	10/05/09	61790	Y	ES-N08-090924
East Site	N8	ES-N08-091124	CADMIUM	0.21	12/15/09	63529	Y	ES-N08-091124
East Site	N9	ES-N09-080610	CADMIUM	0.013	05/04/09	57284	N	ES-N09-080610
East Site	N9	ES-N09-090924	CADMIUM	0.61	10/05/09	61790	Y	ES-N09-090924
East Site	N10	ES-N10-080610	CADMIUM	0.013	05/01/09	57284	N	ES-N10-080610
East Site	O3	ES-O03-080528	CADMIUM	0.013	06/09/09	58135	N	ES-O03-080528
East Site	O4	ES-O04-080515	CADMIUM	0.014	06/09/09	58135	N	ES-O04-080515
East Site	O5	ES-O05-080520	CADMIUM	0.0097	06/09/09	58135	N	ES-O05-080520
East Site	O6	ES-O06-080529	CADMIUM	0.012	06/09/09	58135	N	ES-O06-080529
East Site	O6	ES-O06-091105	CADMIUM	0.01	12/08/09	63405	N	ES-O06-091105
East Site	O7	ES-O07-100225	CADMIUM	0.12	03/05/10	65036	Y	ES-O07-100225
East Site	O7	ES-O07-100225	CADMIUM	0.12	03/05/10	65036	Y	ES-O07-100225
East Site	O7	ES-O07-100225	CADMIUM	0.12	03/05/10	65036	Y	ES-O07-100225
East Site	O7	ES-O07-100225	CADMIUM	0.12	03/05/10	65036	Y	ES-O07-100225
East Site	O7	ES-O07-100225	CADMIUM	0.12	03/05/10	65036	Y	ES-O07-100225
East Site	O7	ES-O07-100225	CADMIUM	0.12	03/05/10	65036	Y	ES-O07-100225
East Site	O7	ES-O07-100225	CADMIUM	0.12	03/05/10	65036	Y	ES-O07-100225
East Site	O7	ES-O07-100225	CADMIUM	0.12	03/05/10	65036	Y	ES-O07-100225
East Site	O8	ES-O08-080530	CADMIUM	0.011	07/27/09	59757	N	ES-O08-080530
East Site	O8	ES-O08-100225	CADMIUM	0.011	03/05/10	65036	N	ES-O08-100225
East Site	O8	ES-O08-100225	CADMIUM	0.011	03/05/10	65036	N	ES-O08-100225
East Site	O8	ES-O08-100225	CADMIUM	0.011	03/05/10	65036	N	ES-O08-100225
East Site	O8	ES-O08-100225	CADMIUM	0.011	03/05/10	65036	N	ES-O08-100225
East Site	O8	ES-O08-100225	CADMIUM	0.011	03/05/10	65036	N	ES-O08-100225
East Site	O8	ES-O08-100225	CADMIUM	0.011	03/05/10	65036	N	ES-O08-100225
East Site	O8	ES-O08-100225	CADMIUM	0.011	03/05/10	65036	N	ES-O08-100225
East Site	O8	ES-O08-100225	CADMIUM	0.011	03/05/10	65036	N	ES-O08-100225
East Site	O9	ES-O09-091014	CADMIUM	0.2	10/28/09	62499	Y	ES-O09-091014
East Site	O9	ES-O09-092309	CADMIUM	0.64	10/05/09	61790	Y	ES-O09-092309
East Site	O10	ES-O10-091014	CADMIUM	0.95	10/28/09	62499	Y	ES-O10-091014
East Site	O10	ES-O10-091123	CADMIUM	0.23	12/14/09	63529	Y	ES-O10-091123
East Site	O10	ES-O10-092309	CADMIUM	0.83	10/05/09	61790	Y	ES-O10-092309
East Site	P4	ES-P04-080528	CADMIUM	0.11	05/24/09	57792	Y	DUP-16
East Site	P4	ES-P04-080528	CADMIUM	0.013	06/09/09	58135	N	ES-P04-080528
East Site	P5	ES-P05-080513	CADMIUM	0.015	06/09/09	58135	N	ES-P05-080513
East Site	P6	ES-P06-080515	CADMIUM	0.051	05/24/09	57792	Y	DUP-12
East Site	P6	ES-P06-080515	CADMIUM	0.014	06/09/09	58135	N	ES-P06-080515
East Site	P7	ES-P07-080519	CADMIUM	0.11	05/28/09	57847	Y	ES-P07-080519
East Site	P7	ES-P07-091022	CADMIUM	0.17	11/05/09	62754	Y	ES-P07-091022
East Site	P8	ES-P08-080530	CADMIUM	0.012	06/09/09	58135	N	ES-P08-080530
East Site	P10	ES-P10-080606	CADMIUM	0.028	05/01/09	57284	Y	ES-P10-080606
East Site	P10	ES-P10-091014	CADMIUM	0.23	10/28/09	62499	Y	ES-P10-091014
East Site	P10	ES-P10-092309	CADMIUM	0.62	10/05/09	61790	Y	ES-P10-092309
East Site	P11	ES-P11-080606	CADMIUM	0.043	05/01/09	57284	Y	ES-P11-080606

CADMIUM Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	P11	ES-P11-092309	CADMIUM	0.56	10/05/09	61790	Y	ES-P11-092309
East Site	Q5	ES-Q05-080520	CADMIUM	0.22	06/09/09	58135	Y	ES-Q05-080520
East Site	Q5	ES-Q05-091105	CADMIUM	0.15	12/08/09	63405	Y	ES-Q05-091105
East Site	Q6	ES-Q06-091021	CADMIUM	0.012	11/05/09	62754	N	ES-Q06-091021
East Site	Q7	ES-Q07-091021	CADMIUM	0.011	11/05/09	62754	N	ES-Q07-091021
East Site	Q7	ES-Q07-091228	CADMIUM	0.69	01/19/10	64128	Y	ES-Q07-091228
East Site	Q7	ES-Q07-091228	CADMIUM	0.69	01/19/10	64128	Y	ES-Q07-091228
East Site	Q7	ES-Q07-091228	CADMIUM	0.69	01/19/10	64128	Y	ES-Q07-091228
East Site	Q7	ES-Q07-091228	CADMIUM	0.69	01/19/10	64128	Y	ES-Q07-091228
East Site	Q7	ES-Q07-091228	CADMIUM	0.69	01/19/10	64128	Y	ES-Q07-091228
East Site	Q7	ES-Q07-091228	CADMIUM	0.69	01/19/10	64128	Y	ES-Q07-091228
East Site	Q7	ES-Q07-091228	CADMIUM	0.69	01/19/10	64128	Y	ES-Q07-091228
East Site	Q7	ES-Q07-091228	CADMIUM	0.69	01/19/10	64128	Y	ES-Q07-091228
East Site	Q8	ES-Q08-091021	CADMIUM	0.012	11/05/09	62754	N	ES-Q08-091021
East Site	Q8	ES-Q08-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-Q08-091228
East Site	Q8	ES-Q08-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-Q08-091228
East Site	Q8	ES-Q08-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-Q08-091228
East Site	Q8	ES-Q08-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-Q08-091228
East Site	Q8	ES-Q08-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-Q08-091228
East Site	Q8	ES-Q08-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-Q08-091228
East Site	Q8	ES-Q08-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-Q08-091228
East Site	Q8	ES-Q08-091228	CADMIUM	0.68	01/19/10	64128	Y	ES-Q08-091228
East Site	Q9	ES-Q09-080612	CADMIUM	0.012	06/09/09	58135	N	ES-Q09-080612
East Site	Q10	ES-Q10-080606	CADMIUM	0.26	05/11/09	57543	Y	ES-Q10-080606
East Site	Q10	ES-Q10-091123	CADMIUM	0.016	12/14/09	63529	N	ES-Q10-091123
East Site	Q10	ES-Q10-092309	CADMIUM	0.64	10/05/09	61790	Y	ES-Q10-092309
East Site	Q11	ES-Q11-080606	CADMIUM	0.32	05/11/09	57543	Y	ES-Q11-080606
East Site	Q17	ES-Q17-080609	CADMIUM	0.17	05/01/09	57147	Y	ES-Q17-080609
East Site	R5	ES-R05-080521	CADMIUM	0.012	06/09/09	58135	N	ES-R05-080521
East Site	R5	ES-R05-091105	CADMIUM	0.012	12/08/09	63405	N	ES-R05-091105
East Site	R6	ES-R06-080521	CADMIUM	0.018	06/20/09	58565	Y	ES-R06-080521
East Site	R7	ES-R07-080521	CADMIUM	0.012	06/10/09	58212	N	ES-R07-080521
East Site	R8	ES-R08-091021	CADMIUM	0.038	11/05/09	62754	Y	ES-R08-091021
East Site	R8	ES-R08-091021	CADMIUM	0.29	01/19/10	64206	Y	DUP-46
East Site	R9	ES-R09-080520	CADMIUM	0.014	06/10/09	58212	N	ES-R09-080520
East Site	R10	ES-R10-080602	CADMIUM	0.015	06/10/09	58212	N	ES-R10-080602
East Site	R11	ES-R11-080605	CADMIUM	0.23	05/11/09	57543	Y	ES-R11-080605
East Site	R11	ES-R11-090910	CADMIUM	0.098	10/28/09	62499	Y	DUP-38
East Site	R11	ES-R11-090910	CADMIUM	0.012	11/09/09	61414	N	ES-R11-090910
East Site	R12	ES-R12-080611	CADMIUM	0.22	05/11/09	57543	Y	ES-R12-080611
East Site	R16	ES-R16-080605	CADMIUM	0.12	05/01/09	57147	Y	ES-R16-080605
East Site	R17	ES-R17-080606	CADMIUM	0.1	05/01/09	57147	Y	ES-R17-080606
East Site	S5	ES-S05-080521	CADMIUM	0.017	06/10/09	58212	N	ES-S05-080521
East Site	S6	ES-S06-080521	CADMIUM	0.014	06/10/09	58212	N	ES-S06-080521
East Site	S7	ES-S07-080521	CADMIUM	0.013	06/10/09	58212	N	ES-S07-080521
East Site	S8	ES-S08-091015	CADMIUM	0.1	10/28/09	62499	Y	ES-S08-091015
East Site	S9	ES-S09-080522	CADMIUM	0.016	06/10/09	58212	N	ES-S09-080522
East Site	S10	ES-S10-080523	CADMIUM	0.017	06/10/09	58212	N	ES-S10-080523
East Site	S11	ES-S11-080528	CADMIUM	0.019	06/10/09	58212	N	ES-S11-080528
East Site	S12	ES-S12-080609	CADMIUM	0.092	05/01/09	57147	Y	ES-S12-080609

CADMIUM Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	S13	ES-S13-080610	CADMIUM	0.016	05/01/09	57147	N	ES-S13-080610
East Site	S17	ES-S17-090910	CADMIUM	0.015	09/23/09	61414	N	ES-S17-090910
East Site	S17	ES-S17-090910	CADMIUM	0.57	10/05/09	61790	Y	DUP-37
East Site	S18	ES-S18-080606	CADMIUM	0.017	05/01/09	57147	N	ES-S18-080606
East Site	T7	ES-T07-080612	CADMIUM	0.014	06/10/09	58212	N	ES-T07-080612
East Site	T8	ES-T08-080522	CADMIUM	0.012	06/09/09	58135	N	DUP-13
East Site	T8	ES-T08-080522	CADMIUM	0.014	06/10/09	58212	N	ES-T08-080522
East Site	T9	ES-T09-080522	CADMIUM	0.014	06/10/09	58212	N	ES-T09-080522
East Site	T10	ES-T10-080523	CADMIUM	0.05	06/10/09	58212	Y	DUP-14
East Site	T10	ES-T10-080523	CADMIUM	0.014	06/10/09	58212	N	ES-T10-080523
East Site	T10	ES-T10-091015	CADMIUM	0.039	10/28/09	62499	Y	ES-T10-091015
East Site	T11	ES-T11-080530	CADMIUM	0.013	06/10/09	58212	N	ES-T11-080530
East Site	T12	ES-T12-080609	CADMIUM	0.017	05/01/09	57147	N	ES-T12-080609
East Site	T13	ES-T13-080609	CADMIUM	0.012	05/01/09	57147	N	ES-T13-080609
East Site	T14	ES-T14-080610	CADMIUM	0.013	05/01/09	57147	N	ES-T14-080610
East Site	U10	ES-U10-080523	CADMIUM	0.014	06/10/09	58212	N	ES-U10-080523
East Site	U11	ES-U11-080602	CADMIUM	0.15	06/20/09	58565	Y	ES-U11-080602
East Site	U13	ES-U13-080610	CADMIUM	0.012	05/01/09	57284	N	ES-U13-080610
East Site	U14	ES-U14-080610	CADMIUM	0.013	05/01/09	57284	N	ES-U14-080610
East Site	V11	ES-V11-080529	CADMIUM	0.17	06/20/09	58565	Y	ES-V11-080529
East Site	V14	ES-V14-080605	CADMIUM	0.013	05/01/09	57284	N	ES-V14-080605
East Site	W12	ES-W12-080527	CADMIUM	0.12	06/20/09	58565	Y	ES-W12-080527
West Site	A4	WS-A04-080626	CADMIUM	0.23	07/13/09	59381	Y	WS-A04-080626
West Site	B2	WS-B02-100120	CADMIUM	0.36	02/04/10	64435	Y	WS-B02-100120
West Site	B3	WS-B03-080502	CADMIUM	0.15	07/13/09	59381	Y	WS-B03-080502
West Site	B4	WS-B04-080626	CADMIUM	0.19	07/13/09	59381	Y	WS-B04-080626
West Site	B5	WS-B05-080626	CADMIUM	0.012	07/27/09	59757	N	WS-B05-080626
West Site	C1	WS-C01-080501	CADMIUM	0.46	06/20/09	58565	Y	DUP-3
West Site	C1	WS-C01-080501	CADMIUM	0.48	06/20/09	58565	Y	WS-C01-080501
West Site	C2	WS-C02-080428	CADMIUM	0.43	07/20/09	59621	Y	WS-C02-080428
West Site	C2	WS-C02-100120	CADMIUM	0.17	02/04/10	64435	Y	WS-C02-100120
West Site	C3	WS-C03-080620	CADMIUM	0.25	07/20/09	59621	Y	WS-C03-080620
West Site	C4	WS-C04-080623	CADMIUM	0.43	07/20/09	59621	Y	WS-C04-080623
West Site	C5	WS-C05-080620	CADMIUM	0.013	07/27/09	59757	N	WS-C05-080620
West Site	C5	WS-C05-100112	CADMIUM	0.079	01/27/10	64333	Y	WS-C05-100112
West Site	C5	WS-C05-100112	CADMIUM	0.079	01/27/10	64333	Y	WS-C05-100112
West Site	C5	WS-C05-100112	CADMIUM	0.079	01/27/10	64333	Y	WS-C05-100112
West Site	C5	WS-C05-100112	CADMIUM	0.079	01/27/10	64333	Y	WS-C05-100112
West Site	C5	WS-C05-100112	CADMIUM	0.079	01/27/10	64333	Y	WS-C05-100112
West Site	C5	WS-C05-100112	CADMIUM	0.079	01/27/10	64333	Y	WS-C05-100112
West Site	C5	WS-C05-100112	CADMIUM	0.079	01/27/10	64333	Y	WS-C05-100112
West Site	C5	WS-C05-100112	CADMIUM	0.079	01/27/10	64333	Y	WS-C05-100112
West Site	C6	WS-C06-080624	CADMIUM	0.017	07/27/09	59757	N	WS-C06-080624
West Site	C6	WS-C06-091013	CADMIUM	0.0099	10/28/09	62499	N	WS-C06-091013
West Site	D1	WS-D01-080430	CADMIUM	1.1	06/20/09	58565	Y	WS-D01-080430
West Site	D2	WS-D02-080429	CADMIUM	0.18	07/13/09	59381	Y	DUP-2
West Site	D2	WS-D02-080429	CADMIUM	0.13	07/20/09	59621	Y	WS-D02-080429
West Site	D3	WS-D03-080620	CADMIUM	0.31	07/20/09	59621	Y	WS-D03-080620
West Site	D4	WS-D04-080623	CADMIUM	0.48	08/18/09	60439	Y	WS-D04-080623
West Site	D4	WS-D04-091230	CADMIUM	0.68	01/19/10	64128	Y	WS-D04-091230

CADMIUM Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	D4	WS-D04-091230	CADMIUM	0.68	01/19/10	64128	Y	WS-D04-091230
West Site	D4	WS-D04-091230	CADMIUM	0.68	01/19/10	64128	Y	WS-D04-091230
West Site	D4	WS-D04-091230	CADMIUM	0.68	01/19/10	64128	Y	WS-D04-091230
West Site	D4	WS-D04-091230	CADMIUM	0.68	01/19/10	64128	Y	WS-D04-091230
West Site	D4	WS-D04-091230	CADMIUM	0.68	01/19/10	64128	Y	WS-D04-091230
West Site	D4	WS-D04-091230	CADMIUM	0.68	01/19/10	64128	Y	WS-D04-091230
West Site	D4	WS-D04-091230	CADMIUM	0.68	01/19/10	64128	Y	WS-D04-091230
West Site	D5	WS-D05-080620	CADMIUM	0.013	07/27/09	59757	N	WS-D05-080620
West Site	D5	WS-D05-100111	CADMIUM	0.075	01/27/10	64333	Y	WS-D05-100111
West Site	D5	WS-D05-100111	CADMIUM	0.075	01/27/10	64333	Y	WS-D05-100111
West Site	D5	WS-D05-100111	CADMIUM	0.075	01/27/10	64333	Y	WS-D05-100111
West Site	D5	WS-D05-100111	CADMIUM	0.075	01/27/10	64333	Y	WS-D05-100111
West Site	D5	WS-D05-100111	CADMIUM	0.075	01/27/10	64333	Y	WS-D05-100111
West Site	D5	WS-D05-100111	CADMIUM	0.075	01/27/10	64333	Y	WS-D05-100111
West Site	D5	WS-D05-100111	CADMIUM	0.075	01/27/10	64333	Y	WS-D05-100111
West Site	D5	WS-D05-100111	CADMIUM	0.075	01/27/10	64333	Y	WS-D05-100111
West Site	D6	WS-D06-080619	CADMIUM	0.014	07/27/09	59757	N	WS-D06-080619
West Site	D6	WS-D06-091013	CADMIUM	0.18	10/28/09	62499	Y	WS-D06-091013
West Site	D7	WS-D07-080619	CADMIUM	0.012	07/27/09	59757	N	WS-D07-080619
West Site	D7	WS-D07-091013	CADMIUM	0.01	10/28/09	62499	N	WS-D07-091013
West Site	E1	WS-E01-080430	CADMIUM	0.73	06/20/09	58565	Y	WS-E01-080430
West Site	E2	WS-E02-080428	CADMIUM	2.8	07/13/09	59381	Y	DUP-1
West Site	E2	WS-E02-080428	CADMIUM	2.8	07/20/09	59621	Y	WS-E02-080428
West Site	E2	WS-E02-100115	CADMIUM	0.085	02/04/10	64435	Y	WS-E02-100115
West Site	E3	WS-E03-080619	CADMIUM	0.15	07/20/09	59621	Y	WS-E03-080619
West Site	E4	WS-E04-080613	CADMIUM	0.014	07/27/09	59757	N	WS-E04-080613
West Site	E4	WS-E04-091230	CADMIUM	0.79	01/19/10	64128	Y	WS-E04-091230
West Site	E4	WS-E04-091230	CADMIUM	0.79	01/19/10	64128	Y	WS-E04-091230
West Site	E4	WS-E04-091230	CADMIUM	0.79	01/19/10	64128	Y	WS-E04-091230
West Site	E4	WS-E04-091230	CADMIUM	0.79	01/19/10	64128	Y	WS-E04-091230
West Site	E4	WS-E04-091230	CADMIUM	0.79	01/19/10	64128	Y	WS-E04-091230
West Site	E4	WS-E04-091230	CADMIUM	0.79	01/19/10	64128	Y	WS-E04-091230
West Site	E4	WS-E04-091230	CADMIUM	0.79	01/19/10	64128	Y	WS-E04-091230
West Site	E4	WS-E04-091230	CADMIUM	0.79	01/19/10	64128	Y	WS-E04-091230
West Site	E5	WS-E05-080613	CADMIUM	0.018	07/27/09	59757	N	WS-E05-080613
West Site	E5	WS-E05-100111	CADMIUM	0.0098	01/27/10	64333	N	WS-E05-100111
West Site	E5	WS-E05-100111	CADMIUM	0.0098	01/27/10	64333	N	WS-E05-100111
West Site	E5	WS-E05-100111	CADMIUM	0.0098	01/27/10	64333	N	WS-E05-100111
West Site	E5	WS-E05-100111	CADMIUM	0.0098	01/27/10	64333	N	WS-E05-100111
West Site	E5	WS-E05-100111	CADMIUM	0.0098	01/27/10	64333	N	WS-E05-100111
West Site	E5	WS-E05-100111	CADMIUM	0.0098	01/27/10	64333	N	WS-E05-100111
West Site	E5	WS-E05-100111	CADMIUM	0.0098	01/27/10	64333	N	WS-E05-100111
West Site	E5	WS-E05-100111	CADMIUM	0.0098	01/27/10	64333	N	WS-E05-100111
West Site	E6	WS-E06-080613	CADMIUM	0.019	07/27/09	59757	N	WS-E06-080613
West Site	E6	WS-E06-091228	CADMIUM	0.93	01/19/10	64128	Y	WS-E06-091228
West Site	E6	WS-E06-091228	CADMIUM	0.93	01/19/10	64128	Y	WS-E06-091228
West Site	E6	WS-E06-091228	CADMIUM	0.93	01/19/10	64128	Y	WS-E06-091228
West Site	E6	WS-E06-091228	CADMIUM	0.93	01/19/10	64128	Y	WS-E06-091228
West Site	E6	WS-E06-091228	CADMIUM	0.93	01/19/10	64128	Y	WS-E06-091228
West Site	E6	WS-E06-091228	CADMIUM	0.93	01/19/10	64128	Y	WS-E06-091228

CADMIUM Results from 12/16/2010 database								
Site	quarter_acre _grid	sample_location	chemical_name	result_value	analysis _date	batch_i d	detect _flag	sample_name
West Site	E6	WS-E06-091228	CADMIUM	0.93	01/19/10	64128	Y	WS-E06-091228
West Site	E6	WS-E06-091228	CADMIUM	0.93	01/19/10	64128	Y	WS-E06-091228
West Site	E7	WS-E07-080613	CADMIUM	0.013	07/27/09	59757	N	WS-E07-080613
West Site	E7	WS-E07-091228	CADMIUM	0.48	01/19/10	64128	Y	WS-E07-091228
West Site	E7	WS-E07-091228	CADMIUM	0.48	01/19/10	64128	Y	WS-E07-091228
West Site	E7	WS-E07-091228	CADMIUM	0.48	01/19/10	64128	Y	WS-E07-091228
West Site	E7	WS-E07-091228	CADMIUM	0.48	01/19/10	64128	Y	WS-E07-091228
West Site	E7	WS-E07-091228	CADMIUM	0.48	01/19/10	64128	Y	WS-E07-091228
West Site	E7	WS-E07-091228	CADMIUM	0.48	01/19/10	64128	Y	WS-E07-091228
West Site	E7	WS-E07-091228	CADMIUM	0.48	01/19/10	64128	Y	WS-E07-091228
West Site	E7	WS-E07-091228	CADMIUM	0.48	01/19/10	64128	Y	WS-E07-091228
West Site	E8	WS-E08-091228	CADMIUM	0.6	01/19/10	64128	Y	WS-E08-091228
West Site	E8	WS-E08-091228	CADMIUM	0.6	01/19/10	64128	Y	WS-E08-091228
West Site	E8	WS-E08-091228	CADMIUM	0.6	01/19/10	64128	Y	WS-E08-091228
West Site	E8	WS-E08-091228	CADMIUM	0.6	01/19/10	64128	Y	WS-E08-091228
West Site	E8	WS-E08-091228	CADMIUM	0.6	01/19/10	64128	Y	WS-E08-091228
West Site	E8	WS-E08-091228	CADMIUM	0.6	01/19/10	64128	Y	WS-E08-091228
West Site	E8	WS-E08-091228	CADMIUM	0.6	01/19/10	64128	Y	WS-E08-091228
West Site	E8	WS-E08-091228	CADMIUM	0.6	01/19/10	64128	Y	WS-E08-091228
West Site	F1	WS-F01-080429	CADMIUM	0.62	06/20/09	58565	Y	WS-F01-080429
West Site	F1	WS-F01-100115	CADMIUM	0.014	02/04/10	64435	N	WS-F01-100115
West Site	F2	WS-F02-080429	CADMIUM	1.1	07/20/09	59621	Y	WS-F02-080429
West Site	F2	WS-F02-100115	CADMIUM	0.57	02/04/10	64435	Y	WS-F02-100115
West Site	F3	WS-F03-080619	CADMIUM	2	07/20/09	59621	Y	WS-F03-080619
West Site	F3	WS-F03-100115	CADMIUM	0.75	02/04/10	64435	Y	WS-F03-100115
West Site	F4	WS-F04-080616	CADMIUM	0.92	07/29/09	59889	Y	WS-F04-080616
West Site	F4	WS-F04-091230	CADMIUM	1	01/19/10	64128	Y	WS-F04-091230
West Site	F4	WS-F04-091230	CADMIUM	1	01/19/10	64128	Y	WS-F04-091230
West Site	F4	WS-F04-091230	CADMIUM	1	01/19/10	64128	Y	WS-F04-091230
West Site	F4	WS-F04-091230	CADMIUM	1	01/19/10	64128	Y	WS-F04-091230
West Site	F4	WS-F04-091230	CADMIUM	1	01/19/10	64128	Y	WS-F04-091230
West Site	F4	WS-F04-091230	CADMIUM	1	01/19/10	64128	Y	WS-F04-091230
West Site	F4	WS-F04-091230	CADMIUM	1	01/19/10	64128	Y	WS-F04-091230
West Site	F4	WS-F04-091230	CADMIUM	1	01/19/10	64128	Y	WS-F04-091230
West Site	F5	WS-F05-080612	CADMIUM	0.85	08/18/09	60439	Y	WS-F05-080612
West Site	F5	WS-F05-100111	CADMIUM	0.011	01/27/10	64333	N	WS-F05-100111
West Site	F5	WS-F05-100111	CADMIUM	0.011	01/27/10	64333	N	WS-F05-100111
West Site	F5	WS-F05-100111	CADMIUM	0.011	01/27/10	64333	N	WS-F05-100111
West Site	F5	WS-F05-100111	CADMIUM	0.011	01/27/10	64333	N	WS-F05-100111
West Site	F5	WS-F05-100111	CADMIUM	0.011	01/27/10	64333	N	WS-F05-100111
West Site	F5	WS-F05-100111	CADMIUM	0.011	01/27/10	64333	N	WS-F05-100111
West Site	F5	WS-F05-100111	CADMIUM	0.011	01/27/10	64333	N	WS-F05-100111
West Site	F5	WS-F05-100111	CADMIUM	0.011	01/27/10	64333	N	WS-F05-100111
West Site	F6	WS-F06-080612	CADMIUM	0.42	07/29/09	59889	Y	WS-F06-080612
West Site	F6	WS-F06-091228	CADMIUM	0.86	01/19/10	64128	Y	WS-F06-091228
West Site	F6	WS-F06-091228	CADMIUM	0.86	01/19/10	64128	Y	WS-F06-091228
West Site	F6	WS-F06-091228	CADMIUM	0.86	01/19/10	64128	Y	WS-F06-091228
West Site	F6	WS-F06-091228	CADMIUM	0.86	01/19/10	64128	Y	WS-F06-091228
West Site	F6	WS-F06-091228	CADMIUM	0.86	01/19/10	64128	Y	WS-F06-091228
West Site	F6	WS-F06-091228	CADMIUM	0.86	01/19/10	64128	Y	WS-F06-091228

CADMIUM Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	F6	WS-F06-091228	CADMIUM	0.86	01/19/10	64128	Y	WS-F06-091228
West Site	F6	WS-F06-091228	CADMIUM	0.86	01/19/10	64128	Y	WS-F06-091228
West Site	F7	WS-F07-080617	CADMIUM	0.89	06/29/09	58728	Y	WS-F07-080617
West Site	F8	WS-F08-080618	CADMIUM	0.72	06/29/09	58728	Y	WS-F08-080618
West Site	G1	WS-G01-080501	CADMIUM	0.71	06/20/09	58565	Y	DUP-4
West Site	G1	WS-G01-080501	CADMIUM	0.53	06/29/09	58728	Y	WS-G01-080501
West Site	G1	WS-G01-100113	CADMIUM	0.073	01/27/10	64333	Y	WS-G01-100113
West Site	G1	WS-G01-100113	CADMIUM	0.073	01/27/10	64333	Y	WS-G01-100113
West Site	G1	WS-G01-100113	CADMIUM	0.073	01/27/10	64333	Y	WS-G01-100113
West Site	G1	WS-G01-100113	CADMIUM	0.073	01/27/10	64333	Y	WS-G01-100113
West Site	G1	WS-G01-100113	CADMIUM	0.073	01/27/10	64333	Y	WS-G01-100113
West Site	G1	WS-G01-100113	CADMIUM	0.073	01/27/10	64333	Y	WS-G01-100113
West Site	G1	WS-G01-100113	CADMIUM	0.073	01/27/10	64333	Y	WS-G01-100113
West Site	G1	WS-G01-100113	CADMIUM	0.073	01/27/10	64333	Y	WS-G01-100113
West Site	G1	WS-G01-100223	CADMIUM	0.0086	03/05/10	65036	N	WS-G01-100223
West Site	G1	WS-G01-100223	CADMIUM	0.0086	03/05/10	65036	N	WS-G01-100223
West Site	G1	WS-G01-100223	CADMIUM	0.0086	03/05/10	65036	N	WS-G01-100223
West Site	G1	WS-G01-100223	CADMIUM	0.0086	03/05/10	65036	N	WS-G01-100223
West Site	G1	WS-G01-100223	CADMIUM	0.0086	03/05/10	65036	N	WS-G01-100223
West Site	G1	WS-G01-100223	CADMIUM	0.0086	03/05/10	65036	N	WS-G01-100223
West Site	G1	WS-G01-100223	CADMIUM	0.0086	03/05/10	65036	N	WS-G01-100223
West Site	G1	WS-G01-100223	CADMIUM	0.0086	03/05/10	65036	N	WS-G01-100223
West Site	G2	WS-G02-080618	CADMIUM	0.88	07/20/09	59621	Y	WS-G02-080618
West Site	G2	WS-G02-100113	CADMIUM	0.13	01/27/10	64333	Y	WS-G02-100113
West Site	G2	WS-G02-100113	CADMIUM	0.13	01/27/10	64333	Y	WS-G02-100113
West Site	G2	WS-G02-100113	CADMIUM	0.13	01/27/10	64333	Y	WS-G02-100113
West Site	G2	WS-G02-100113	CADMIUM	0.13	01/27/10	64333	Y	WS-G02-100113
West Site	G2	WS-G02-100113	CADMIUM	0.13	01/27/10	64333	Y	WS-G02-100113
West Site	G2	WS-G02-100113	CADMIUM	0.13	01/27/10	64333	Y	WS-G02-100113
West Site	G2	WS-G02-100113	CADMIUM	0.13	01/27/10	64333	Y	WS-G02-100113
West Site	G2	WS-G02-100113	CADMIUM	0.13	01/27/10	64333	Y	WS-G02-100113
West Site	G3	WS-G03-080619	CADMIUM	0.27	07/20/09	59621	Y	WS-G03-080619
West Site	G4	WS-G04-080616	CADMIUM	0.38	07/29/09	59889	Y	WS-G04-080616
West Site	G5	WS-G05-100108	CADMIUM	0.53	01/19/10	64206	Y	WS-G05-100108
West Site	G5	WS-G05-100223	CADMIUM	0.081	03/05/10	65036	Y	WS-G05-100223
West Site	G5	WS-G05-100223	CADMIUM	0.081	03/05/10	65036	Y	WS-G05-100223
West Site	G5	WS-G05-100223	CADMIUM	0.081	03/05/10	65036	Y	WS-G05-100223
West Site	G5	WS-G05-100223	CADMIUM	0.081	03/05/10	65036	Y	WS-G05-100223
West Site	G5	WS-G05-100223	CADMIUM	0.081	03/05/10	65036	Y	WS-G05-100223
West Site	G5	WS-G05-100223	CADMIUM	0.081	03/05/10	65036	Y	WS-G05-100223
West Site	G5	WS-G05-100223	CADMIUM	0.081	03/05/10	65036	Y	WS-G05-100223
West Site	G5	WS-G05-100223	CADMIUM	0.081	03/05/10	65036	Y	WS-G05-100223
West Site	G6	WS-G06-080616	CADMIUM	0.46	07/29/09	59889	Y	WS-G06-080616
West Site	G6	WS-G06-100107	CADMIUM	0.41	01/19/10	64206	Y	WS-G06-100107
West Site	G7	WS-G07-080617	CADMIUM	2.4	06/29/09	58728	Y	WS-G07-080617
West Site	G7	WS-G07-100105	CADMIUM	0.51	01/19/10	64206	Y	WS-G07-100105
West Site	H1	WS-H01-080501	CADMIUM	1.1	06/29/09	58728	Y	WS-H01-080501
West Site	H2	WS-H02-080618	CADMIUM	0.69	07/20/09	59621	Y	WS-H02-080618
West Site	H2	WS-H02-100113	CADMIUM	0.0094	01/27/10	64333	N	WS-H02-100113
West Site	H2	WS-H02-100113	CADMIUM	0.0094	01/27/10	64333	N	WS-H02-100113

CADMIUM Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	H2	WS-H02-100113	CADMIUM	0.0094	01/27/10	64333	N	WS-H02-100113
West Site	H2	WS-H02-100113	CADMIUM	0.0094	01/27/10	64333	N	WS-H02-100113
West Site	H2	WS-H02-100113	CADMIUM	0.0094	01/27/10	64333	N	WS-H02-100113
West Site	H2	WS-H02-100113	CADMIUM	0.0094	01/27/10	64333	N	WS-H02-100113
West Site	H2	WS-H02-100113	CADMIUM	0.0094	01/27/10	64333	N	WS-H02-100113
West Site	H2	WS-H02-100113	CADMIUM	0.0094	01/27/10	64333	N	WS-H02-100113
West Site	H3	WS-H03-080619	CADMIUM	0.3	07/29/09	59889	Y	WS-H03-080619
West Site	H4	WS-H04-080616	CADMIUM	0.42	07/29/09	59889	Y	WS-H04-080616
West Site	H5	WS-H05-100107	CADMIUM	0.43	01/19/10	64206	Y	WS-H05-100107
West Site	H6	WS-H06-080617	CADMIUM	1.1	06/29/09	58728	Y	WS-H06-080617
West Site	I1	WS-I01-080501	CADMIUM	2.5	06/29/09	58728	Y	DUP-5
West Site	I1	WS-I01-080501	CADMIUM	2.3	06/29/09	58728	Y	WS-I01-080501
West Site	I1	WS-I01-091013	CADMIUM	0.41	10/28/09	62499	Y	WS-I01-091013
West Site	I2	WS-I02-080618	CADMIUM	0.02	07/27/09	59757	N	WS-I02-080618
West Site	I2	WS-I02-091014	CADMIUM	0.37	10/28/09	62499	Y	WS-I02-091014
West Site	I2	WS-I02-100113	CADMIUM	0.0097	01/27/10	64333	N	WS-I02-100113
West Site	I2	WS-I02-100113	CADMIUM	0.0097	01/27/10	64333	N	WS-I02-100113
West Site	I2	WS-I02-100113	CADMIUM	0.0097	01/27/10	64333	N	WS-I02-100113
West Site	I2	WS-I02-100113	CADMIUM	0.0097	01/27/10	64333	N	WS-I02-100113
West Site	I2	WS-I02-100113	CADMIUM	0.0097	01/27/10	64333	N	WS-I02-100113
West Site	I2	WS-I02-100113	CADMIUM	0.0097	01/27/10	64333	N	WS-I02-100113
West Site	I2	WS-I02-100113	CADMIUM	0.0097	01/27/10	64333	N	WS-I02-100113
West Site	I2	WS-I02-100113	CADMIUM	0.0097	01/27/10	64333	N	WS-I02-100113
West Site	I3	WS-I03-080618	CADMIUM	1.5	07/29/09	59889	Y	WS-I03-080618
West Site	I3	WS-I03-091013	CADMIUM	0.23	10/28/09	62499	Y	WS-I03-091013
West Site	I3	WS-I03-100113	CADMIUM	0.011	01/27/10	64333	N	WS-I03-100113
West Site	I3	WS-I03-100113	CADMIUM	0.011	01/27/10	64333	N	WS-I03-100113
West Site	I3	WS-I03-100113	CADMIUM	0.011	01/27/10	64333	N	WS-I03-100113
West Site	I3	WS-I03-100113	CADMIUM	0.011	01/27/10	64333	N	WS-I03-100113
West Site	I3	WS-I03-100113	CADMIUM	0.011	01/27/10	64333	N	WS-I03-100113
West Site	I3	WS-I03-100113	CADMIUM	0.011	01/27/10	64333	N	WS-I03-100113
West Site	I3	WS-I03-100113	CADMIUM	0.011	01/27/10	64333	N	WS-I03-100113
West Site	I3	WS-I03-100113	CADMIUM	0.011	01/27/10	64333	N	WS-I03-100113
West Site	I4	WS-I04-080617	CADMIUM	0.4	07/29/09	59889	Y	WS-I04-080617
West Site	I4	WS-I04-100106	CADMIUM	0.1	01/19/10	64206	Y	WS-I04-100106
West Site	I5	WS-I05-080617	CADMIUM	1.6	06/29/09	58728	Y	WS-I05-080617
West Site	I5	WS-I05-091013	CADMIUM	1.6	10/28/09	62499	Y	WS-I05-091013
West Site	I5	WS-I05-100107	CADMIUM	0.53	01/19/10	64206	Y	WS-I05-100107
West Site	I6	WS-I06-080617	CADMIUM	4.7	06/29/09	58728	Y	WS-I06-080617
West Site	I6	WS-I06-100105	CADMIUM	0.35	01/19/10	64206	Y	WS-I06-100105
West Site	J1	WS-J01-080505	CADMIUM	1.5	06/29/09	58728	Y	WS-J01-080505
West Site	J1	WS-J01-080505	CADMIUM	1.6	06/29/09	58728	Y	DUP-6
West Site	J1	WS-J01-091013	CADMIUM	1.3	10/28/09	62499	Y	WS-J01-091013
West Site	J1	WS-J01-100112	CADMIUM	0.0098	01/27/10	64333	N	WS-J01-100112
West Site	J1	WS-J01-100112	CADMIUM	0.0098	01/27/10	64333	N	WS-J01-100112
West Site	J1	WS-J01-100112	CADMIUM	0.0098	01/27/10	64333	N	WS-J01-100112
West Site	J1	WS-J01-100112	CADMIUM	0.0098	01/27/10	64333	N	WS-J01-100112
West Site	J1	WS-J01-100112	CADMIUM	0.0098	01/27/10	64333	N	WS-J01-100112
West Site	J1	WS-J01-100112	CADMIUM	0.0098	01/27/10	64333	N	WS-J01-100112
West Site	J1	WS-J01-100112	CADMIUM	0.0098	01/27/10	64333	N	WS-J01-100112

CADMIUM Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	J1	WS-J01-100112	CADMIUM	0.0098	01/27/10	64333	N	WS-J01-100112
West Site	J2	WS-J02-080624	CADMIUM	1.1	06/29/09	58728	Y	WS-J02-080624
West Site	J2	WS-J02-100112	CADMIUM	0.011	01/27/10	64333	N	WS-J02-100112
West Site	J2	WS-J02-100112	CADMIUM	0.011	01/27/10	64333	N	WS-J02-100112
West Site	J2	WS-J02-100112	CADMIUM	0.011	01/27/10	64333	N	WS-J02-100112
West Site	J2	WS-J02-100112	CADMIUM	0.011	01/27/10	64333	N	WS-J02-100112
West Site	J2	WS-J02-100112	CADMIUM	0.011	01/27/10	64333	N	WS-J02-100112
West Site	J2	WS-J02-100112	CADMIUM	0.011	01/27/10	64333	N	WS-J02-100112
West Site	J2	WS-J02-100112	CADMIUM	0.011	01/27/10	64333	N	WS-J02-100112
West Site	J2	WS-J02-100112	CADMIUM	0.011	01/27/10	64333	N	WS-J02-100112
West Site	J3	WS-J03-080620	CADMIUM	1.1	07/07/09	59163	Y	WS-J03-080620
West Site	J4	WS-J04-080617	CADMIUM	1.2	07/08/09	59163	Y	WS-J04-080617
West Site	J4	WS-J04-100106	CADMIUM	0.36	01/19/10	64206	Y	WS-J04-100106
West Site	J5	WS-J05-080618	CADMIUM	0.94	07/08/09	59163	Y	WS-J05-080618
West Site	K1	WS-K01-080505	CADMIUM	2.2	07/08/09	59163	Y	WS-K01-080505
West Site	K1	WS-K01-091013	CADMIUM	0.83	10/28/09	62499	Y	WS-K01-091013
West Site	K2	WS-K02-080509	CADMIUM	0.73	07/08/09	59163	Y	WS-K02-080509
West Site	K3	WS-K03-080509	CADMIUM	0.66	07/08/09	59163	Y	WS-K03-080509
West Site	K4	WS-K04-080513	CADMIUM	0.25	07/08/09	59163	Y	WS-K04-080513
West Site	K4	WS-K04-080513	CADMIUM	0.014	07/27/09	59757	N	DUP-10
West Site	K4	WS-K04-100106	CADMIUM	0.11	01/19/10	64206	Y	WS-K04-100106
West Site	K5	WS-K05-080509	CADMIUM	0.42	07/08/09	59163	Y	WS-K05-080509
West Site	L1	WS-L01-080505	CADMIUM	0.53	07/08/09	59163	Y	WS-L01-080505
West Site	L2	WS-L02-080508	CADMIUM	0.68	07/08/09	59163	Y	WS-L02-080508
West Site	L3	WS-L03-080508	CADMIUM	0.6	07/08/09	59163	Y	WS-L03-080508
West Site	L4	WS-L04-080508	CADMIUM	0.63	07/09/09	59163	Y	WS-L04-080508
West Site	L4	WS-L04-080508	CADMIUM	0.72	07/09/09	59163	Y	DUP-9
West Site	M1	WS-M01-080505	CADMIUM	1	07/09/09	59163	Y	DUP-7
West Site	M1	WS-M01-080505	CADMIUM	0.98	07/09/09	59163	Y	WS-M01-080505
West Site	M2	WS-M02-080507	CADMIUM	0.23	07/27/09	59757	Y	WS-M02-080507
West Site	M3	WS-M03-080507	CADMIUM	0.55	07/20/09	59621	Y	DUP-8
West Site	M3	WS-M03-080507	CADMIUM	0.46	08/05/09	60088	Y	WS-M03-080507
West Site	M3	WS-M03-091217	CADMIUM	0.066	01/05/10	63970	Y	WS-M03-091217
West Site	M3	WS-M03-091217	CADMIUM	0.074	03/05/10	65036	Y	DUP-48
West Site	M3	WS-M03-091217	CADMIUM	0.074	03/05/10	65036	Y	DUP-48
West Site	M3	WS-M03-091217	CADMIUM	0.074	03/05/10	65036	Y	DUP-48
West Site	M3	WS-M03-091217	CADMIUM	0.074	03/05/10	65036	Y	DUP-48
West Site	M4	WS-M04-080507	CADMIUM	0.6	08/05/09	60088	Y	WS-M04-080507
West Site	M4	WS-M04-091218	CADMIUM	0.038	01/05/10	63970	Y	WS-M04-091218
West Site	M4	WS-M04-091218	CADMIUM	0.69	01/19/10	64128	Y	DUP-44
West Site	M4	WS-M04-091218	CADMIUM	0.69	01/19/10	64128	Y	DUP-44
West Site	M4	WS-M04-091218	CADMIUM	0.69	01/19/10	64128	Y	DUP-44
West Site	M4	WS-M04-091218	CADMIUM	0.69	01/19/10	64128	Y	DUP-44
West Site	N1	WS-N01-080506	CADMIUM	0.49	08/05/09	60088	Y	WS-N01-080506
West Site	N2	WS-N02-080506	CADMIUM	0.36	07/13/09	59381	Y	WS-N02-080506
West Site	N3	WS-N03-080507	CADMIUM	0.45	06/29/09	58728	Y	WS-N03-080507
West Site	O1	WS-O01-080506	CADMIUM	0.36	07/13/09	59381	Y	WS-O01-080506
West Site	O2	WS-O02-080506	CADMIUM	0.36	07/13/09	59381	Y	WS-O02-080506

Table Cr-1: Chromium Data Quality Summary

Laboratory Performance Criteria	Criteria	Measured	Comment
Minimum LCS Recovery	greater than 80%	82%	
Minimum Matrix Spike Recovery	greater than 70%	65%	
Average LCS Recovery	N/A	94%	
Average Matrix Spike Recovery	N/A	87%	
Maximum LCS RPD	less than 20%	48%	
Maximum Laboratory Duplicate RPD	less than 20%	13%	
Average LCS RPD	N/A	4%	
Average Laboratory Duplicate RPD	N/A	5%	
Measurement Quality Objectives	**Critera**	**Measured**	
NPS CRM	Recovery greater than 45.2	Minimum Recovery =	45 mg/kg
EQIS CRM	Recovery greater than 47.2	Minimum Recovery =	55 mg/kg
CVS Split Analysis RPD	RPD less than 35%	Maximum RPD =	41.9 %
CRM Split Analysis RPD	RPD less than 35%	Maximum RPD =	12.6 %
Overall QC Indicator Measurements	**Criteria**	**Measured**	
NPS CRM "Made to" (Bias measure)	N/A	Average Recovery =	81.4 %
NPS Replicate Test (Precision measure)	N/A	Standard Deviation =	4.5 mg/kg
Data Quality Relative to Remediation Goals			
Tier 1 Remediation Goal	31	mg/kg	
Tier 2 Remediation Goal	35	mg/kg	
QC derived reliance Level	30.4	mg/kg See Note 1	

Comments: Low average matrix spike recovery (87%) and a minimum NPS CRM recovery (45.0 mg/kg) under the vendor supplied lower acceptance limit (45.2 mg/kg) both indicate a bias favoring low measurement of chromium concentration. Exceedance of the LPC for matrix spike recovery (batches 49189 and 57226) and exceedance of the MQO for a CVS Split RPD (sample DUP-8) also suggest qualified precision which is reflected in the derived reliance level (30.4 mg/kg) slightly lower than the RG (31 mg/kg). However, the only chromium measurement to exceed the derived reliance level was in grid WS- B3, which failed the Tier 2 RG for chromium and underwent additional excavation and resampling, therefore, that qualified measurement will not influence any decision related to RG achievement. Based on the foregoing, together with the review of the QC data, it is concluded that the risk of erroneously declaring a grid to have achieved the chromium RG is acceptably low, and the chromium CVS measurements have acceptable quality and may be used to determine RG achievement.

Note 1. Derived reliance level is calculated as:
(Tier 2 RG)(1.2)(Average Recovery)-(0.81)(Standard deviation) = (35)(1.2)(.814)-(0.84)(4.5) = 30.4 mg/kg

Table Cr-2: Chromium - NPS CRMs				
Blind NPS CRM Results				
Sample	Result	Analysis Date	Batch	Detect
BOR Sample 1-BOR 56	49.8	5/3/09	57226	Y
BOR SAMPLE 6-BOR 81	52.4	5/4/09	57400	Y
BOR Sample 4-BOR 82	45	5/8/09	57514	Y
BOR 83	50.3	5/27/09	57790	Y
BOR Sample 3-BOR 58	48.4	5/27/09	57790	Y
BOR 84	50.1	5/27/09	57848	Y
BOR Sample 7-BOR 105	48.4	5/27/09	57848	Y
BOR 85	45.8	6/5/09	58137	Y
BOR Sample 8-BOR 106	47	6/5/09	58137	Y
BOR 86	55.1	6/11/09	58213	Y
BOR 108	51.1	6/19/09	58563	Y
BOR 87	50.3	6/19/09	58563	Y
BOR 109	52	6/30/09	58729	Y
BOR 110	60	7/11/09	59382	Y
BOR Sample 9-BOR 107	53.3	7/24/09	59758	Y
BOR 111	49.9	7/30/09	59890	Y

CRMs		Vendor Supplied Information
Mean	50.6	*"Made to"*
Median	50.2	*62.1 mg/kg*
Standard Deviation	3.7	
Sample Variance	13.3	*Upper Acceptance Limit*
Kurtosis	2.0	*67.7 mg/kg*
Skewness	1.0	
Range	15.0	*Lower Acceptance Limit*
Minimum	45.0	*45.2 mg/kg*
Maximum	60.0	
Sum	808.9	
Count	16.0	
Largest(2)	55.1	
Smallest(2)	45.8	

Table Cr-3: Chromium - NPS Replicate Tests on a Background Sample				
Results of Replicate Analyses of a Single Sample				
Sample	Result	Analysis Date	Batch	Detect
BOR 112	23.8	5/3/09	57226	Y
BOR 59	17.2	5/4/09	57400	Y
BOR 60	17.9	5/8/09	57514	Y
BOR 113	16.5	5/27/09	57790	Y
BOR 61	16.6	5/27/09	57790	Y
BOR 62	18.1	6/11/09	58213	Y
BOR 63	16.3	6/19/09	58563	Y
BOR 89	14.9	6/19/09	58563	Y
BOR 115	18.6	6/30/09	58729	Y
BOR 64	16.7	7/8/09	59165	Y
BOR 91	17.3	7/8/09	59165	Y
BOR 116	36.7	7/11/09	59382	Y
BOR 92	22.3	7/11/09	59382	Y
BOR 65	17.5	7/22/09	59623	Y
BOR 88	16.9	7/30/09	59890	Y
BOR 800	12.9	9/25/09	61415	Y
BOR-802	19.2	10/6/09	61791	Y
BOR 804	22	11/6/09	62734	Y
BOR-805	18	11/18/09	62992	Y
BOR-807	17.1	11/25/09	63216	Y
BOR-808	16.2	12/7/09	63406	Y
BOR 813	16.5	1/20/10	64129	Y
BOR 815	15.9	1/20/10	64207	Y
BOR-816	23.4	1/26/10	64334	Y
BOR-820	17.5	3/5/10	65037	Y

Replicate analyses of Single Sample	
Mean	18.640
Median	17.300
Standard Deviation	4.548
Sample Variance	20.688
Kurtosis	10.268
Skewness	2.830
Range	23.800
Minimum	12.900
Maximum	36.700
Sum	466.000
Count	25.000
Largest(2)	23.800
Smallest(2)	14.900

Table Cr-4: Chromium NPS and EQIS Duplicates							
Sample	Result	Analysis Date	Batch	Split	Result	Analysis Date	RPD
BOR 503	20.5	5/4/09	57400	ES-T11-080530	21.3	6/11/2009	4
BOR 506	20.6	5/8/09	57514	ES-S10-080523	21	6/11/2009	2
BOR 504	19.5	5/27/09	57790	ES-M05-080527	17.5	5/27/2009	11
BOR 507	14.7	6/5/09	58137	ES-O09-080610			
BOR 508	17.4	6/19/09	58563	ES-Q11-080606	20.3	5/8/2009	15
BOR 510	21.5	6/30/09	58729	OU-8HR-080605	21.8	5/3/2009	1
BOR 501	18.7	7/8/09	59165	WS-L04-080508	20.9	7/8/2009	11
BOR 505	18.2	7/22/09	59623	WS-K03-080509	17.4	7/8/2009	4
BOR 502	19.6	7/24/09	59758	WS-F05-080612	18.3	8/17/2009	7
BOR 509	18.3	7/24/09	59758	WS-E06-080613	18.2	7/24/2009	1
BOR 500	22.6	7/30/09	59890	WS-F01-080429	21.7	6/19/2009	4
BOR-809	23.3	12/14/09	63531	ES-K03-091103	21.7	11/25/2009	7
BOR-810	16.8	12/14/09	63531	ES-P07-091022	17.6	11/18/2009	5
BOR-811	16.9	12/14/09	63531	ES-R08-091021	21.2	11/18/2009	23
BOR 814	25.3	1/20/10	64129	ES-J05-091124	19.1	12/14/2009	28
BOR-818	19.9	3/5/10	65037	WS-F05-100111	18.6	1/26/2010	7
BOR-822	22.5	3/5/10	65037	ES-Q08-091228	21.4	1/20/2010	5
DUP-11	20.7	5/3/09	57100	ES-J03-080513	17.5	6/19/2009	17
DUP-17	16.7	5/4/09	57400	ES-F01-080529	17.7	5/8/2009	6
DUP-15	13.2	5/8/09	57514	ES-J02-080527	18.6	5/27/2009	34
DUP-18	18.1	5/8/09	57514	ES-J04-080530	18.5	5/27/2009	2
DUP-12	19.3	5/27/09	57790	ES-P06-080515	17.5	6/5/2009	10
DUP-16	19	5/27/09	57790	ES-P04-080528	18.5	6/5/2009	3
DUP-19	17.4	5/27/09	57848	ES-K05-080605	17.1	5/27/2009	2
DUP-13	18.5	6/5/09	58137	ES-T08-080522	20.5	6/11/2009	10
DUP-14	19.3	6/11/09	58213	ES-T10-080523	19.6	6/11/2009	2
DUP-3	19.6	6/19/09	58563	WS-C01-080501	17.3	6/19/2009	12
DUP-4	22.5	6/19/09	58563	WS-G01-080501	24.9	6/30/2009	10
DUP-5	18.5	6/30/09	58729	WS-I01-080501	20.5	6/30/2009	10
DUP-6	19.4	6/30/09	58729	WS-J01-080505	18.5	6/30/2009	5
DUP-7	18.4	7/8/09	59165	WS-M01-080505	17.7	7/8/2009	4
DUP-9	19	7/8/09	59165	WS-L04-080508	20.9	7/8/2009	10
DUP-1	26.7	7/11/09	59382	WS-E02-080428	23.5	7/22/2009	13
DUP-2	23.4	7/11/09	59382	WS-D02-080429	20.3	7/22/2009	14
DUP-8	17.6	7/22/09	59623	WS-M03-080507	11.5	8/11/2009	42
DUP-10	18.1	7/24/09	59758	WS-K04-080513	19.3	7/8/2009	6
DUP-37	22.4	10/6/09	61791	ES-S17-090910	20.9	9/25/2009	7
DUP-38	22.5	10/29/09	62501	ES-R11-090910	18.1	9/25/2009	22
DUP-40	20	11/18/09	62992	ES-A01-102109			
DUP-39	19	12/7/09	63406	ES-C01-090910	18.3	9/25/2009	4
DUP-44	16.8	1/20/10	64129	WS-M04-091218	14.2	1/6/2010	17
DUP-45	19.3	1/20/10	64129	ES-J05-091124	19.1	12/14/2009	1
DUP-46	19.1	1/20/10	64207	ES-R08-091021	21.2	11/18/2009	10
DUP-47	20.4	1/26/10	64334	ES-K02-091103	20.8	11/25/2009	2
DUP-48	19.2	3/5/10	65037	WS-M03-091217	15.3	1/6/2010	23

Table Cr-4: Chromium NPS and EQIS Duplicates (continued)

RPD of Sample Splits	
Mean	10.013
Median	6.928
Standard Deviation	9.103
Sample Variance	82.872
Kurtosis	3.163
Skewness	1.700
Range	41.376
Minimum	0.548
Maximum	41.924
Sum	430.562
Count	43.000
Largest(2)	33.962
Smallest(2)	1.042

Table Cr-5: Chromium EQIS CRMs						
Results of Duplicate Analysis of EQIS CRMs						
Sample	Result	Date	Batch	Detect	Average	RPD
ES-Z11-080605A	66.5	5/3/09	57100	Y		
ES-Z11-080605B	63.7	5/3/09	57100	Y	65.10	4.30
ES-Z09-080529A	63.8	5/4/09	57400	Y		
ES-Z09-080529B	63.6	5/4/09	57400	Y	63.70	0.31
ES-Z12-080606A	65.1	5/4/09	57400	Y		
ES-Z12-080606B	64.7	5/4/09	57400	Y	64.90	0.62
ES-Z05-080519A	58.8	5/8/09	57514	Y		
ES-Z05-080519B	58	5/8/09	57514	Y	58.40	1.37
ES-Z06-080520A	59	5/8/09	57514	Y		
ES-Z06-080520B	58.6	5/8/09	57514	Y	58.80	0.68
ES-Z07-080522A	57.2	5/27/09	57790	Y		
ES-Z07-080522B	58	5/27/09	57790	Y	57.60	1.39
ES-Z13-080610A	60.4	5/27/09	57848	Y		
ES-Z13-080610B	59.5	5/27/09	57848	Y	59.95	1.50
ES-Z10-080602A	57.3	6/5/09	58137	Y		
ES-Z10-080602B	56.3	6/5/09	58137	Y	56.80	1.76
ES-Z08-080527A	61.2	6/11/09	58213	Y		
ES-Z08-080527B	65	6/11/09	58213	Y	63.10	6.02
ES-Z14-080611A	63.2	6/19/09	58563	Y		
ES-Z14-080611B	61.4	6/19/09	58563	Y	62.30	2.89
ES-Z06-080520C	71	6/30/09	58729	Y		
ES-Z06-080520D	69.5	6/30/09	58729	Y	70.25	2.14
ES-Z05-080519C	63.7	7/8/09	59165	Y		
ES-Z05-080519D	62.5	7/8/09	59165	Y	63.10	1.90
ES-Z19-080624A	69.9	7/11/09	59382	Y		
ES-Z19-080624B	67.3	7/11/09	59382	Y	68.60	3.79
WS-Z17-080618A	66.3	7/11/09	59382	Y		
WS-Z17-080618B	68.6	7/11/09	59382	Y	67.45	3.41
WS-Z15-080613A	69.2	7/22/09	59623	Y		
WS-Z15-080613B	66.6	7/22/09	59623	Y	67.90	3.83
WS-Z18-080620A	67.9	7/22/09	59623	Y		
WS-Z18-080620B	69.4	7/22/09	59623	Y	68.65	2.18
WS-Z16-080617A	65.5	7/30/09	59890	Y		
WS-Z16-080617B	65	7/30/09	59890	Y	65.25	0.77
ES-Z22-091021A	64	11/18/09	62992	Y		
ES-Z22-091021B	63	11/18/09	62992	Y	63.50	1.57
ES-Z23-091022A	63.7	11/18/09	62992	Y		
ES-Z23-091022B	62.9	11/18/09	62992	Y	63.30	1.26
ES-Z24-091103A	68.4	11/25/09	63216	Y		
ES-Z24-091103B	65.8	11/25/09	63216	Y	67.10	3.87
ES-Z25-091104A	66.8	11/25/09	63216	Y		
ES-Z25-091104B	67.7	11/25/09	63216	Y	67.25	1.34
ES-Z26-091105A	62.7	12/7/09	63406	Y		
ES-Z26-091105B	62	12/7/09	63406	Y	62.35	1.12
ES-Z27-091106A	62.4	12/7/09	63406	Y		
ES-Z27-091106B	55	12/7/09	63406	Y	58.70	12.61
WS-Z29-091217A	60.3	1/6/10	63971	Y		
WS-Z29-091217B	61	1/6/10	63971	Y	60.65	1.15
WS-Z30-091230A	64.6	1/20/10	64129	Y		
WS-Z30-091230B	66	1/20/10	64129	Y	65.30	2.14
WS-Z31-100107A	64.1	1/20/10	64207	Y		
WS-Z31-100107B	61.5	1/20/10	64207	Y	62.80	4.14

Table Cr-5: Chromium EQIS CRMs (continued)

Results of Duplicate Analysis of EQIS CRMs

Sample	Result	Date	Batch	Detect	Average	RPD
WS-Z32-100113A	66.1	1/26/10	64334	Y		
WS-Z32-100113B	67.3	1/26/10	64334	Y	66.70	1.80
ES-Z33-100225A	69.4	3/5/10	65037	Y		
ES-Z33-100225B	68.5	3/5/10	65037	Y	68.95	1.31

Analysis of EQIS CRMs	
Mean	64
Median	64
Standard Deviation	4
Sample Variance	15
Kurtosis	-1
Skewness	0
Range	16
Minimum	55
Maximum	71
Sum	3577
Count	56
Largest(2)	70
Smallest(2)	56

RPD of EQIS CRMs	
Mean	3
Median	2
Standard Deviation	2
Sample Variance	6
Kurtosis	11
Skewness	3
Range	12
Minimum	0
Maximum	13
Sum	71
Count	28
Largest(2)	6
Smallest(2)	1

Table Cr-6: Chromium Laboratory MS and LCS

Matrix Spike Recovery %	Batch	Order	LCS Recovery %	Batch	Order
164	7160081	4	92	7160081	4
105	49187	7	90	49187	7
65	49189	8	88	49189	8
105	49537	28	99	49537	28
95	49539	30	100	49539	30
74	54626-627	68	91	54626-627	68
71	54821-822	71	96	54821-822	71
81	54891-892	77	87	54891-892	77
79	54915-916	78	87	54915-916	78
78	57100	114	95	57100	114
69	57226	116	86	57226	116
78	57514	124	92	57514	124
75	57790	138	82	57790	138
73	57848	139	86	57848	139
75	58137	145	84	58137	145
128	58213	154	119	58213	154
118	58563	160	109	58563	160
95	58729	168	104	58729	168
84	59165	174	94	59165	174
84	59382	183	93	59382	183
74	59623	193	96	59623	193
85	59758	198	95	59758	198
77	59890	205	92	59890	205
84	60089	217	88	60089	217
94	60440	221	97	60440	221
100	61415	246	94	61415	246
90	61791	252	100	61791	252
87	62501	261	106	62501	261
79	62755	267	102	62755	267
78	62992	271	92	62992	271
89	63216	283	97	63216	283
94	63406	288	94	63406	288
86	63406	288	95	63531	295
85	63531	295	92	63971	303
88	63971	303	92	64129	321
81	64129	321	91	64207	319
79	64207	319	92	64334	328
78	64334	328	94	64436	341
74	64436	341	98	65037	348
78	65037	348	85	70143	366
80	70143	366			

Average MS Recovery = 87	%	Average LCS Recovery = 94	%
Minimum MS Recovery = 65	%	Minimum LCS Recovery = 82	%

Table Cr-6: Chromium Laboratory MS and LCS (Graph)

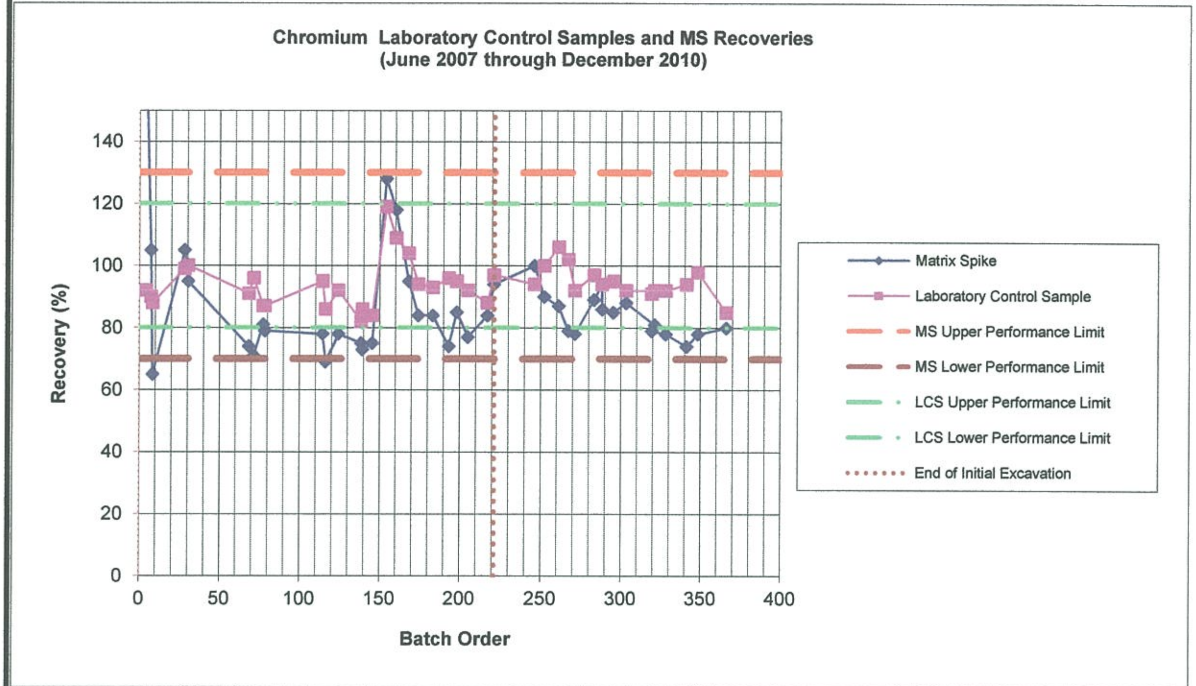
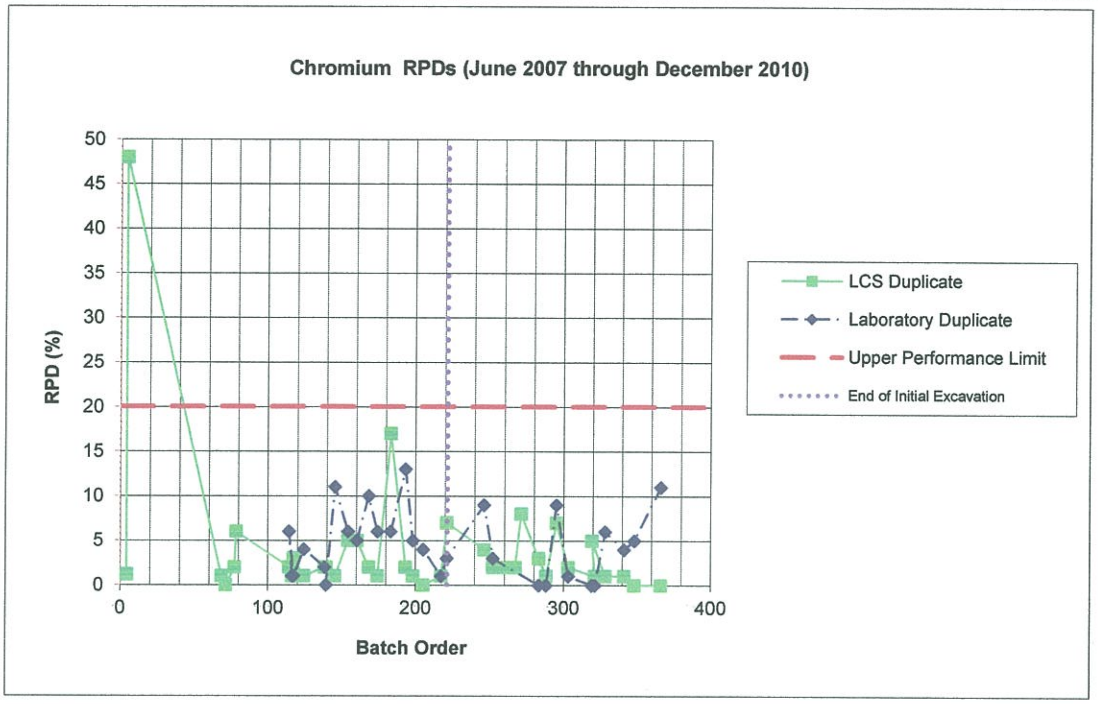


Table Cr-7: Chromium - Laboratory Duplicates and LCS Duplicates

Laboratory Duplicate RPD	Batch	Order	LCS RPD	Batch	Order
1	57226	116	1.2	7160081	4
6	57100	114	48	7160081	4
1	57400	117	1	54626-627	68
4	57514	124	0	54821-822	71
2	57790	138	2	54891-892	77
0	57848	139	6	54915-916	78
11	58137	145	2	57100	114
6	58213	154	1	57226	116
5	58563	160	3	57400	117
10	58729	168	1	57514	124
6	59165	174	2	57790	138
6	59382	183	2	57848	139
13	59623	193	1	58137	145
5	59758	198	5	58213	154
4	59890	205	5	58563	160
1	60089	217	2	58729	168
3	60440	221	1	59165	174
9	61415	246	17	59382	183
3	61791	252	2	59623	193
0	63216	283	1	59758	198
0	63406	288	0	59890	205
9	63531	295	1	60089	217
1	63971	303	7	60440	221
0	64207	319	4	61415	246
0	64129	321	2	61791	252
6	64334	328	2	62501	261
4	64436	341	2	62755	267
5	65037	348	8	62992	271
11	70143	366	3	63216	283
			1	63406	288
			7	63531	295
			2	63971	303
			1	64129	321
			5	64207	319
			1	64334	328
			1	64436	341
			0	65037	348
			0	70143	366

Average Duplicate RPD = 5	%	Average LCS RPD = 4	%
Maximum Duplicate RPD = 13	%	Maximum LCS RPD = 48	%

Table Cr-7: Chromium - Laboratory Duplicates and LCS Duplicates (Graph)



CHROMIUM CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	A1	ES-A01-090910	CHROMIUM	14.9	09/25/09	61415	Y	ES-A01-090910
East Site	A1	ES-A01-102109	CHROMIUM	20	11/18/09	62992	Y	DUP-40
East Site	B1	ES-B01-080623	CHROMIUM	22.4	05/03/09	57100	Y	ES-B01-080623
East Site	C1	ES-C01-080624	CHROMIUM	21.5	05/03/09	57100	Y	ES-C01-080624
East Site	C1	ES-C01-090910	CHROMIUM	18.3	09/25/09	61415	Y	ES-C01-090910
East Site	C1	ES-C01-090910	CHROMIUM	19	12/07/09	63406	Y	DUP-39
East Site	D1	ES-D01-080624	CHROMIUM	16.5	06/05/09	58137	Y	ES-D01-080624
East Site	E1	ES-E01-090910	CHROMIUM	19.4	09/25/09	61415	Y	ES-E01-090910
East Site	E2	ES-E02-090910	CHROMIUM	19	09/25/09	61415	Y	ES-E02-090910
East Site	F1	ES-F01-080529	CHROMIUM	16.7	05/04/09	57400	Y	DUP-17
East Site	F1	ES-F01-080529	CHROMIUM	17.7	05/08/09	57514	Y	ES-F01-080529
East Site	G1	ES-G01-080529	CHROMIUM	14.7	05/08/09	57514	Y	ES-G01-080529
East Site	G2	ES-G02-080605	CHROMIUM	17.4	05/08/09	57514	Y	ES-G02-080605
East Site	H1	ES-H01-080528	CHROMIUM	19	05/08/09	57514	Y	ES-H01-080528
East Site	H1	ES-H01-091105	CHROMIUM	21.9	12/07/09	63406	Y	ES-H01-091105
East Site	H2	ES-H02-080515	CHROMIUM	19.3	05/08/09	57514	Y	ES-H02-080515
East Site	H3	ES-H03-080605	CHROMIUM	19.7	05/27/09	57790	Y	ES-H03-080605
East Site	I1	ES-I01-080529	CHROMIUM	18.2	05/27/09	57790	Y	ES-I01-080529
East Site	I1	ES-I01-091105	CHROMIUM	19	12/07/09	63406	Y	ES-I01-091105
East Site	I2	ES-I02-080514	CHROMIUM	18.7	05/27/09	57790	Y	ES-I02-080514
East Site	I3	ES-I03-080513	CHROMIUM	17.8	05/27/09	57790	Y	ES-I03-080513
East Site	I4	ES-I04-080602	CHROMIUM	17.1	05/27/09	57790	Y	ES-I04-080602
East Site	I4	ES-I04-091106	CHROMIUM	19.1	12/07/09	63406	Y	ES-I04-091106
East Site	J1	ES-J01-080529	CHROMIUM	19.9	05/27/09	57790	Y	ES-J01-080529
East Site	J2	ES-J02-080527	CHROMIUM	13.2	05/08/09	57514	Y	DUP-15
East Site	J2	ES-J02-080527	CHROMIUM	18.6	05/27/09	57790	Y	ES-J02-080527
East Site	J2	ES-J02-091105	CHROMIUM	17.2	12/07/09	63406	Y	ES-J02-091105
East Site	J3	ES-J03-080513	CHROMIUM	20.7	05/03/09	57100	Y	DUP-11
East Site	J3	ES-J03-080513	CHROMIUM	17.5	06/19/09	58563	Y	ES-J03-080513
East Site	J3	ES-J03-091103	CHROMIUM	23.1	11/25/09	63216	Y	ES-J03-091103
East Site	J4	ES-J04-080530	CHROMIUM	18.1	05/08/09	57514	Y	DUP-18
East Site	J4	ES-J04-080530	CHROMIUM	18.5	05/27/09	57790	Y	ES-J04-080530
East Site	J4	ES-J04-091103	CHROMIUM	21.8	11/25/09	63216	Y	ES-J04-091103
East Site	J5	ES-J05-080602	CHROMIUM	17.9	05/27/09	57790	Y	ES-J05-080602
East Site	J5	ES-J05-091124	CHROMIUM	19.1	12/14/09	63531	Y	ES-J05-091124
East Site	J5	ES-J05-091124	CHROMIUM	19.3	01/20/10	64129	Y	DUP-45
East Site	J5	ES-J05-100112	CHROMIUM	21.8	01/26/10	64334	Y	ES-J05-100112
East Site	K1	ES-K01-080602	CHROMIUM	18.2	05/27/09	57790	Y	ES-K01-080602
East Site	K2	ES-K02-080602	CHROMIUM	20	05/08/09	57514	Y	ES-K02-080602
East Site	K2	ES-K02-091103	CHROMIUM	20.8	11/25/09	63216	Y	ES-K02-091103
East Site	K2	ES-K02-091103	CHROMIUM	20.4	01/26/10	64334	Y	DUP-47
East Site	K3	ES-K03-080514	CHROMIUM	17.8	05/27/09	57790	Y	ES-K03-080514
East Site	K3	ES-K03-091103	CHROMIUM	21.7	11/25/09	63216	Y	ES-K03-091103

CHROMIUM CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	K4	ES-K04-080527	CHROMIUM	19.1	05/27/09	57848	Y	ES-K04-080527
East Site	K5	ES-K05-080605	CHROMIUM	17.1	05/27/09	57848	Y	ES-K05-080605
East Site	K5	ES-K05-080605	CHROMIUM	17.4	05/27/09	57848	Y	DUP-19
East Site	K7	ES-K07-080611	CHROMIUM	23.9	05/04/09	57400	Y	ES-K07-080611
East Site	K7	ES-K07-090924	CHROMIUM	25.8	10/06/09	61791	Y	ES-K07-090924
East Site	K7	ES-K07-091123	CHROMIUM	20.9	12/14/09	63531	Y	ES-K07-091123
East Site	L1	ES-L01-080625	CHROMIUM	17	05/27/09	57848	Y	ES-L01-080625
East Site	L2	ES-L02-080625	CHROMIUM	17.5	05/27/09	57848	Y	ES-L02-080625
East Site	L3	ES-L03-080604	CHROMIUM	19.9	05/27/09	57848	Y	ES-L03-080604
East Site	L3	ES-L03-091104	CHROMIUM	21.1	11/25/09	63216	Y	ES-L03-091104
East Site	L4	ES-L04-080604	CHROMIUM	19.2	06/19/09	58563	Y	ES-L04-080604
East Site	L4	ES-L04-091104	CHROMIUM	20.5	11/25/09	63216	Y	ES-L04-091104
East Site	L5	ES-L05-091104	CHROMIUM	19.7	11/25/09	63216	Y	ES-L05-091104
East Site	L6	ES-L06-091104	CHROMIUM	19.9	11/25/09	63216	Y	ES-L06-091104
East Site	M1	ES-M01-080527	CHROMIUM	20.7	05/27/09	57848	Y	ES-M01-080527
East Site	M2	ES-M02-080519	CHROMIUM	20.1	05/27/09	57848	Y	ES-M02-080519
East Site	M3	ES-M03-091022	CHROMIUM	20.6	11/18/09	62992	Y	ES-M03-091022
East Site	M3	ES-M03-091228	CHROMIUM	22	01/20/10	64129	Y	ES-M03-091228
East Site	M4	ES-M04-080515	CHROMIUM	20	05/27/09	57848	Y	ES-M04-080515
East Site	M5	ES-M05-080527	CHROMIUM	17.5	05/27/09	57848	Y	ES-M05-080527
East Site	M6	ES-M06-080520	CHROMIUM	17.8	05/27/09	57848	Y	ES-M06-080520
East Site	M6	ES-M06-091105	CHROMIUM	20.3	12/07/09	63406	Y	ES-M06-091105
East Site	M7	ES-M07-091105	CHROMIUM	20.9	12/07/09	63406	Y	ES-M07-091105
East Site	M8	ES-M08-080610	CHROMIUM	19.8	05/04/09	57400	Y	ES-M08-080610
East Site	M8	ES-M08-090924	CHROMIUM	19.1	10/06/09	61791	Y	ES-M08-090924
East Site	M8	ES-M08-091123	CHROMIUM	19.4	12/14/09	63531	Y	ES-M08-091123
East Site	M9	ES-M09-080611	CHROMIUM	19.3	05/04/09	57400	Y	ES-M09-080611
East Site	N2	ES-N02-080528	CHROMIUM	18.9	05/27/09	57848	Y	ES-N02-080528
East Site	N3	ES-N03-080520	CHROMIUM	18.5	05/27/09	57848	Y	ES-N03-080520
East Site	N4	ES-N04-080519	CHROMIUM	21.3	05/27/09	57848	Y	ES-N04-080519
East Site	N5	ES-N05-080519	CHROMIUM	19.8	05/27/09	57848	Y	ES-N05-080519
East Site	N5	ES-N05-091105	CHROMIUM	16.9	12/07/09	63406	Y	ES-N05-091105
East Site	N6	ES-N06-080527	CHROMIUM	18.5	06/05/09	58137	Y	ES-N06-080527
East Site	N7	ES-N07-080530	CHROMIUM	17.2	06/05/09	58137	Y	ES-N07-080530
East Site	N7	ES-N07-100225	CHROMIUM	23.4	03/05/10	65037	Y	ES-N07-100225
East Site	N8	ES-N08-080610	CHROMIUM	20.3	05/04/09	57400	Y	ES-N08-080610
East Site	N8	ES-N08-090924	CHROMIUM	22.4	10/06/09	61791	Y	ES-N08-090924
East Site	N8	ES-N08-091124	CHROMIUM	18.5	12/14/09	63531	Y	ES-N08-091124
East Site	N9	ES-N09-080610	CHROMIUM	20.9	05/04/09	57400	Y	ES-N09-080610
East Site	N9	ES-N09-090924	CHROMIUM	20.9	10/06/09	61791	Y	ES-N09-090924
East Site	N10	ES-N10-080610	CHROMIUM	19.6	05/04/09	57400	Y	ES-N10-080610
East Site	O3	ES-O03-080528	CHROMIUM	17.6	06/05/09	58137	Y	ES-O03-080528
East Site	O4	ES-O04-080515	CHROMIUM	18.6	06/05/09	58137	Y	ES-O04-080515

CHROMIUM CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	O5	ES-O05-080520	CHROMIUM	20	06/05/09	58137	Y	ES-O05-080520
East Site	O6	ES-O06-080529	CHROMIUM	17.2	06/05/09	58137	Y	ES-O06-080529
East Site	O6	ES-O06-091105	CHROMIUM	20.8	12/07/09	63406	Y	ES-O06-091105
East Site	O7	ES-O07-100225	CHROMIUM	18.9	03/05/10	65037	Y	ES-O07-100225
East Site	O8	ES-O08-080530	CHROMIUM	19.2	07/24/09	59758	Y	ES-O08-080530
East Site	O8	ES-O08-100225	CHROMIUM	22.1	03/05/10	65037	Y	ES-O08-100225
East Site	O9	ES-O09-091014	CHROMIUM	22.6	10/29/09	62501	Y	ES-O09-091014
East Site	O9	ES-O09-092309	CHROMIUM	21	10/06/09	61791	Y	ES-O09-092309
East Site	O10	ES-O10-091014	CHROMIUM	20.6	11/06/09	62734	Y	ES-O10-091014
East Site	O10	ES-O10-091123	CHROMIUM	15.7	12/14/09	63531	Y	ES-O10-091123
East Site	O10	ES-O10-092309	CHROMIUM	18.7	10/06/09	61791	Y	ES-O10-092309
East Site	P4	ES-P04-080528	CHROMIUM	19	05/27/09	57790	Y	DUP-16
East Site	P4	ES-P04-080528	CHROMIUM	18.5	06/05/09	58137	Y	ES-P04-080528
East Site	P5	ES-P05-080513	CHROMIUM	18.6	06/05/09	58137	Y	ES-P05-080513
East Site	P6	ES-P06-080515	CHROMIUM	19.3	05/27/09	57790	Y	DUP-12
East Site	P6	ES-P06-080515	CHROMIUM	17.5	06/05/09	58137	Y	ES-P06-080515
East Site	P7	ES-P07-080519	CHROMIUM	18.6	05/27/09	57848	Y	ES-P07-080519
East Site	P7	ES-P07-091022	CHROMIUM	17.6	11/18/09	62992	Y	ES-P07-091022
East Site	P8	ES-P08-080530	CHROMIUM	19.3	06/05/09	58137	Y	ES-P08-080530
East Site	P10	ES-P10-080606	CHROMIUM	18.8	05/04/09	57400	Y	ES-P10-080606
East Site	P10	ES-P10-091014	CHROMIUM	21.8	10/29/09	62501	Y	ES-P10-091014
East Site	P10	ES-P10-092309	CHROMIUM	19.8	10/06/09	61791	Y	ES-P10-092309
East Site	P11	ES-P11-080606	CHROMIUM	17.4	05/04/09	57400	Y	ES-P11-080606
East Site	P11	ES-P11-092309	CHROMIUM	19.7	10/06/09	61791	Y	ES-P11-092309
East Site	Q5	ES-Q05-080520	CHROMIUM	19.8	06/05/09	58137	Y	ES-Q05-080520
East Site	Q5	ES-Q05-091105	CHROMIUM	20.7	12/07/09	63406	Y	ES-Q05-091105
East Site	Q6	ES-Q06-091021	CHROMIUM	19.7	11/18/09	62992	Y	ES-Q06-091021
East Site	Q7	ES-Q07-091021	CHROMIUM	19.9	11/18/09	62992	Y	ES-Q07-091021
East Site	Q7	ES-Q07-091228	CHROMIUM	20.5	01/20/10	64129	Y	ES-Q07-091228
East Site	Q8	ES-Q08-091021	CHROMIUM	21.6	11/18/09	62992	Y	ES-Q08-091021
East Site	Q8	ES-Q08-091228	CHROMIUM	21.4	01/20/10	64129	Y	ES-Q08-091228
East Site	Q9	ES-Q09-080612	CHROMIUM	18.2	06/05/09	58137	Y	ES-Q09-080612
East Site	Q10	ES-Q10-080606	CHROMIUM	22.7	05/08/09	57514	Y	ES-Q10-080606
East Site	Q10	ES-Q10-091123	CHROMIUM	23.6	12/14/09	63531	Y	ES-Q10-091123
East Site	Q10	ES-Q10-092309	CHROMIUM	21.7	10/06/09	61791	Y	ES-Q10-092309
East Site	Q11	ES-Q11-080606	CHROMIUM	20.3	05/08/09	57514	Y	ES-Q11-080606
East Site	Q17	ES-Q17-080609	CHROMIUM	16.1	05/03/09	57100	Y	ES-Q17-080609
East Site	R5	ES-R05-080521	CHROMIUM	23.8	06/05/09	58137	Y	ES-R05-080521
East Site	R5	ES-R05-091105	CHROMIUM	21	12/07/09	63406	Y	ES-R05-091105
East Site	R6	ES-R06-080521	CHROMIUM	20.1	06/19/09	58563	Y	ES-R06-080521
East Site	R7	ES-R07-080521	CHROMIUM	19.9	06/11/09	58213	Y	ES-R07-080521
East Site	R8	ES-R08-091021	CHROMIUM	21.2	11/18/09	62992	Y	ES-R08-091021
East Site	R8	ES-R08-091021	CHROMIUM	19.1	01/20/10	64207	Y	DUP-46

CHROMIUM CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	R9	ES-R09-080520	CHROMIUM	20.7	06/11/09	58213	Y	ES-R09-080520
East Site	R10	ES-R10-080602	CHROMIUM	18.4	06/11/09	58213	Y	ES-R10-080602
East Site	R11	ES-R11-080605	CHROMIUM	20.6	05/08/09	57514	Y	ES-R11-080605
East Site	R11	ES-R11-090910	CHROMIUM	18.1	09/25/09	61415	Y	ES-R11-090910
East Site	R11	ES-R11-090910	CHROMIUM	22.5	10/29/09	62501	Y	DUP-38
East Site	R12	ES-R12-080611	CHROMIUM	18.6	05/08/09	57514	Y	ES-R12-080611
East Site	R16	ES-R16-080605	CHROMIUM	19.8	05/03/09	57100	Y	ES-R16-080605
East Site	R17	ES-R17-080606	CHROMIUM	17.5	05/03/09	57100	Y	ES-R17-080606
East Site	S5	ES-S05-080521	CHROMIUM	19.3	06/11/09	58213	Y	ES-S05-080521
East Site	S6	ES-S06-080521	CHROMIUM	23	06/11/09	58213	Y	ES-S06-080521
East Site	S7	ES-S07-080521	CHROMIUM	20.2	06/11/09	58213	Y	ES-S07-080521
East Site	S8	ES-S08-091015	CHROMIUM	27.3	10/29/09	62501	Y	ES-S08-091015
East Site	S9	ES-S09-080522	CHROMIUM	21.9	06/11/09	58213	Y	ES-S09-080522
East Site	S10	ES-S10-080523	CHROMIUM	21	06/11/09	58213	Y	ES-S10-080523
East Site	S11	ES-S11-080528	CHROMIUM	20.1	06/11/09	58213	Y	ES-S11-080528
East Site	S12	ES-S12-080609	CHROMIUM	19.6	05/03/09	57100	Y	ES-S12-080609
East Site	S13	ES-S13-080610	CHROMIUM	18.3	05/03/09	57100	Y	ES-S13-080610
East Site	S17	ES-S17-090910	CHROMIUM	20.9	09/25/09	61415	Y	ES-S17-090910
East Site	S17	ES-S17-090910	CHROMIUM	22.4	10/06/09	61791	Y	DUP-37
East Site	S18	ES-S18-080606	CHROMIUM	21.2	05/03/09	57100	Y	ES-S18-080606
East Site	T7	ES-T07-080612	CHROMIUM	19.3	06/11/09	58213	Y	ES-T07-080612
East Site	T8	ES-T08-080522	CHROMIUM	18.5	06/05/09	58137	Y	DUP-13
East Site	T8	ES-T08-080522	CHROMIUM	20.5	06/11/09	58213	Y	ES-T08-080522
East Site	T9	ES-T09-080522	CHROMIUM	18.6	06/11/09	58213	Y	ES-T09-080522
East Site	T10	ES-T10-080523	CHROMIUM	19.3	06/11/09	58213	Y	DUP-14
East Site	T10	ES-T10-080523	CHROMIUM	19.6	06/11/09	58213	Y	ES-T10-080523
East Site	T10	ES-T10-091015	CHROMIUM	27.2	10/29/09	62501	Y	ES-T10-091015
East Site	T11	ES-T11-080530	CHROMIUM	21.3	06/11/09	58213	Y	ES-T11-080530
East Site	T12	ES-T12-080609	CHROMIUM	21.2	05/03/09	57100	Y	ES-T12-080609
East Site	T13	ES-T13-080609	CHROMIUM	20.4	05/03/09	57100	Y	ES-T13-080609
East Site	T14	ES-T14-080610	CHROMIUM	18.7	05/03/09	57100	Y	ES-T14-080610
East Site	U10	ES-U10-080523	CHROMIUM	20.9	06/11/09	58213	Y	ES-U10-080523
East Site	U11	ES-U11-080602	CHROMIUM	18.2	06/19/09	58563	Y	ES-U11-080602
East Site	U13	ES-U13-080610	CHROMIUM	15.9	05/04/09	57400	Y	ES-U13-080610
East Site	U14	ES-U14-080610	CHROMIUM	17	05/04/09	57400	Y	ES-U14-080610
East Site	V11	ES-V11-080529	CHROMIUM	20.2	06/19/09	58563	Y	ES-V11-080529
East Site	V14	ES-V14-080605	CHROMIUM	17	05/04/09	57400	Y	ES-V14-080605
East Site	W12	ES-W12-080527	CHROMIUM	16.9	06/19/09	58563	Y	ES-W12-080527
West Site	A4	WS-A04-080626	CHROMIUM	24.8	07/11/09	59382	Y	WS-A04-080626
West Site	B2	WS-B02-100120	CHROMIUM	17	02/05/10	64436	Y	WS-B02-100120
West Site	B3	WS-B03-080502	CHROMIUM	37.5	07/11/09	59382	Y	WS-B03-080502
West Site	B4	WS-B04-080626	CHROMIUM	20.8	07/11/09	59382	Y	WS-B04-080626
West Site	B5	WS-B05-080626	CHROMIUM	18	07/24/09	59758	Y	WS-B05-080626

CHROMIUM CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	C1	WS-C01-080501	CHROMIUM	19.6	06/19/09	58563	Y	DUP-3
West Site	C1	WS-C01-080501	CHROMIUM	17.3	06/19/09	58563	Y	WS-C01-080501
West Site	C2	WS-C02-080428	CHROMIUM	46.9	07/22/09	59623	Y	WS-C02-080428
West Site	C2	WS-C02-100120	CHROMIUM	27.9	02/05/10	64436	Y	WS-C02-100120
West Site	C3	WS-C03-080620	CHROMIUM	22.4	07/22/09	59623	Y	WS-C03-080620
West Site	C4	WS-C04-080623	CHROMIUM	17.9	07/22/09	59623	Y	WS-C04-080623
West Site	C5	WS-C05-080620	CHROMIUM	24.6	07/24/09	59758	Y	WS-C05-080620
West Site	C5	WS-C05-100112	CHROMIUM	18.5	01/26/10	64334	Y	WS-C05-100112
West Site	C6	WS-C06-080624	CHROMIUM	20.2	07/24/09	59758	Y	WS-C06-080624
West Site	C6	WS-C06-091013	CHROMIUM	22.8	10/29/09	62501	Y	WS-C06-091013
West Site	D1	WS-D01-080430	CHROMIUM	19	06/19/09	58563	Y	WS-D01-080430
West Site	D2	WS-D02-080429	CHROMIUM	23.4	07/11/09	59382	Y	DUP-2
West Site	D2	WS-D02-080429	CHROMIUM	20.3	07/22/09	59623	Y	WS-D02-080429
West Site	D3	WS-D03-080620	CHROMIUM	18.4	07/22/09	59623	Y	WS-D03-080620
West Site	D4	WS-D04-080623	CHROMIUM	17	08/17/09	60440	Y	WS-D04-080623
West Site	D4	WS-D04-091230	CHROMIUM	17.3	01/20/10	64129	Y	WS-D04-091230
West Site	D5	WS-D05-080620	CHROMIUM	21.3	07/24/09	59758	Y	WS-D05-080620
West Site	D5	WS-D05-100111	CHROMIUM	19.1	01/26/10	64334	Y	WS-D05-100111
West Site	D6	WS-D06-080619	CHROMIUM	21.6	07/24/09	59758	Y	WS-D06-080619
West Site	D6	WS-D06-091013	CHROMIUM	23.2	10/29/09	62501	Y	WS-D06-091013
West Site	D7	WS-D07-080619	CHROMIUM	21.9	07/24/09	59758	Y	WS-D07-080619
West Site	D7	WS-D07-091013	CHROMIUM	24	10/29/09	62501	Y	WS-D07-091013
West Site	E1	WS-E01-080430	CHROMIUM	19.8	06/19/09	58563	Y	WS-E01-080430
West Site	E2	WS-E02-080428	CHROMIUM	26.7	07/11/09	59382	Y	DUP-1
West Site	E2	WS-E02-080428	CHROMIUM	23.5	07/22/09	59623	Y	WS-E02-080428
West Site	E2	WS-E02-100115	CHROMIUM	20.3	02/05/10	64436	Y	WS-E02-100115
West Site	E3	WS-E03-080619	CHROMIUM	17.8	07/22/09	59623	Y	WS-E03-080619
West Site	E4	WS-E04-080613	CHROMIUM	18.1	07/24/09	59758	Y	WS-E04-080613
West Site	E4	WS-E04-091230	CHROMIUM	16.8	01/20/10	64129	Y	WS-E04-091230
West Site	E5	WS-E05-080613	CHROMIUM	19.8	07/24/09	59758	Y	WS-E05-080613
West Site	E5	WS-E05-100111	CHROMIUM	20.3	01/26/10	64334	Y	WS-E05-100111
West Site	E6	WS-E06-080613	CHROMIUM	18.2	07/24/09	59758	Y	WS-E06-080613
West Site	E6	WS-E06-091228	CHROMIUM	17.5	01/20/10	64129	Y	WS-E06-091228
West Site	E7	WS-E07-080613	CHROMIUM	20.9	07/24/09	59758	Y	WS-E07-080613
West Site	E7	WS-E07-091228	CHROMIUM	20.1	01/20/10	64129	Y	WS-E07-091228
West Site	E8	WS-E08-091228	CHROMIUM	18	01/20/10	64129	Y	WS-E08-091228
West Site	F1	WS-F01-080429	CHROMIUM	21.7	06/19/09	58563	Y	WS-F01-080429
West Site	F1	WS-F01-100115	CHROMIUM	19.6	02/05/10	64436	Y	WS-F01-100115
West Site	F2	WS-F02-080429	CHROMIUM	28.4	07/22/09	59623	Y	WS-F02-080429
West Site	F2	WS-F02-100115	CHROMIUM	17.8	02/05/10	64436	Y	WS-F02-100115
West Site	F3	WS-F03-080619	CHROMIUM	22.3	07/22/09	59623	Y	WS-F03-080619
West Site	F3	WS-F03-100115	CHROMIUM	16	02/05/10	64436	Y	WS-F03-100115
West Site	F4	WS-F04-080616	CHROMIUM	20.8	07/30/09	59890	Y	WS-F04-080616

CHROMIUM CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	F4	WS-F04-091230	CHROMIUM	17.6	01/20/10	64129	Y	WS-F04-091230
West Site	F5	WS-F05-080612	CHROMIUM	18.3	08/17/09	60440	Y	WS-F05-080612
West Site	F5	WS-F05-100111	CHROMIUM	18.6	01/26/10	64334	Y	WS-F05-100111
West Site	F6	WS-F06-080612	CHROMIUM	21	07/30/09	59890	Y	WS-F06-080612
West Site	F6	WS-F06-091228	CHROMIUM	19.2	01/20/10	64129	Y	WS-F06-091228
West Site	F7	WS-F07-080617	CHROMIUM	22.9	06/30/09	58729	Y	WS-F07-080617
West Site	F8	WS-F08-080618	CHROMIUM	20.3	06/30/09	58729	Y	WS-F08-080618
West Site	G5	WS-G05-100223	CHROMIUM	21.1	03/05/10	65037	Y	WS-G05-100223
West Site	G6	WS-G06-080616	CHROMIUM	19.3	07/30/09	59890	Y	WS-G06-080616
West Site	G6	WS-G06-100107	CHROMIUM	17.4	01/20/10	64207	Y	WS-G06-100107
West Site	G7	WS-G07-080617	CHROMIUM	23.8	06/30/09	58729	Y	WS-G07-080617
West Site	G7	WS-G07-100105	CHROMIUM	18.4	01/20/10	64207	Y	WS-G07-100105
West Site	H1	WS-H01-080501	CHROMIUM	24.5	06/30/09	58729	Y	WS-H01-080501
West Site	H2	WS-H02-080618	CHROMIUM	19.8	07/22/09	59623	Y	WS-H02-080618
West Site	H2	WS-H02-100113	CHROMIUM	18.1	01/26/10	64334	Y	WS-H02-100113
West Site	H3	WS-H03-080619	CHROMIUM	15.5	07/30/09	59890	Y	WS-H03-080619
West Site	H4	WS-H04-080616	CHROMIUM	16.5	07/30/09	59890	Y	WS-H04-080616
West Site	H5	WS-H05-100107	CHROMIUM	17.5	01/20/10	64207	Y	WS-H05-100107
West Site	H6	WS-H06-080617	CHROMIUM	24.4	06/30/09	58729	Y	WS-H06-080617
West Site	I1	WS-I01-080501	CHROMIUM	18.5	06/30/09	58729	Y	DUP-5
West Site	I1	WS-I01-080501	CHROMIUM	20.5	06/30/09	58729	Y	WS-I01-080501
West Site	I1	WS-I01-091013	CHROMIUM	20.3	11/06/09	62734	Y	WS-I01-091013
West Site	I2	WS-I02-080618	CHROMIUM	18.6	07/24/09	59758	Y	WS-I02-080618
West Site	I2	WS-I02-091014	CHROMIUM	22.2	10/29/09	62501	Y	WS-I02-091014
West Site	I2	WS-I02-100113	CHROMIUM	17.8	01/26/10	64334	Y	WS-I02-100113
West Site	I3	WS-I03-080618	CHROMIUM	16.6	07/30/09	59890	Y	WS-I03-080618
West Site	I3	WS-I03-091013	CHROMIUM	21	10/29/09	62501	Y	WS-I03-091013
West Site	I3	WS-I03-100113	CHROMIUM	16.1	01/26/10	64334	Y	WS-I03-100113
West Site	I4	WS-I04-080617	CHROMIUM	17.3	07/30/09	59890	Y	WS-I04-080617
West Site	I4	WS-I04-100106	CHROMIUM	15.3	01/20/10	64207	Y	WS-I04-100106
West Site	I5	WS-I05-080617	CHROMIUM	24.3	06/30/09	58729	Y	WS-I05-080617
West Site	I5	WS-I05-091013	CHROMIUM	23.7	10/29/09	62501	Y	WS-I05-091013
West Site	I5	WS-I05-100107	CHROMIUM	17.5	01/20/10	64207	Y	WS-I05-100107
West Site	I6	WS-I06-080617	CHROMIUM	26.9	06/30/09	58729	Y	WS-I06-080617
West Site	I6	WS-I06-100105	CHROMIUM	17.8	01/20/10	64207	Y	WS-I06-100105
West Site	J1	WS-J01-080505	CHROMIUM	18.5	06/30/09	58729	Y	WS-J01-080505
West Site	J1	WS-J01-080505	CHROMIUM	19.4	06/30/09	58729	Y	DUP-6
West Site	J1	WS-J01-091013	CHROMIUM	21.4	11/06/09	62734	Y	WS-J01-091013
West Site	J1	WS-J01-100112	CHROMIUM	18.8	01/26/10	64334	Y	WS-J01-100112
West Site	J2	WS-J02-080624	CHROMIUM	19.6	06/30/09	58729	Y	WS-J02-080624
West Site	J2	WS-J02-100112	CHROMIUM	18.1	01/26/10	64334	Y	WS-J02-100112
West Site	J3	WS-J03-080620	CHROMIUM	20.3	07/08/09	59165	Y	WS-J03-080620
West Site	J4	WS-J04-080617	CHROMIUM	21.1	07/08/09	59165	Y	WS-J04-080617

CHROMIUM CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	J4	WS-J04-100106	CHROMIUM	20.3	01/20/10	64207	Y	WS-J04-100106
West Site	J5	WS-J05-080618	CHROMIUM	18.3	07/08/09	59165	Y	WS-J05-080618
West Site	K1	WS-K01-080505	CHROMIUM	18	07/08/09	59165	Y	WS-K01-080505
West Site	K1	WS-K01-091013	CHROMIUM	19.9	11/06/09	62734	Y	WS-K01-091013
West Site	K2	WS-K02-080509	CHROMIUM	21.8	07/08/09	59165	Y	WS-K02-080509
West Site	K3	WS-K03-080509	CHROMIUM	17.4	07/08/09	59165	Y	WS-K03-080509
West Site	K4	WS-K04-080513	CHROMIUM	19.3	07/08/09	59165	Y	WS-K04-080513
West Site	K4	WS-K04-080513	CHROMIUM	18.1	07/24/09	59758	Y	DUP-10
West Site	K4	WS-K04-100106	CHROMIUM	19.5	01/20/10	64207	Y	WS-K04-100106
West Site	K5	WS-K05-080509	CHROMIUM	19.3	07/08/09	59165	Y	WS-K05-080509
West Site	L1	WS-L01-080505	CHROMIUM	17.3	07/08/09	59165	Y	WS-L01-080505
West Site	L2	WS-L02-080508	CHROMIUM	17.6	07/08/09	59165	Y	WS-L02-080508
West Site	L3	WS-L03-080508	CHROMIUM	16.1	07/08/09	59165	Y	WS-L03-080508
West Site	L4	WS-L04-080508	CHROMIUM	20.9	07/08/09	59165	Y	WS-L04-080508
West Site	L4	WS-L04-080508	CHROMIUM	19	07/08/09	59165	Y	DUP-9
West Site	M1	WS-M01-080505	CHROMIUM	18.4	07/08/09	59165	Y	DUP-7
West Site	M1	WS-M01-080505	CHROMIUM	17.7	07/08/09	59165	Y	WS-M01-080505
West Site	M2	WS-M02-080507	CHROMIUM	19.8	07/24/09	59758	Y	WS-M02-080507
West Site	M3	WS-M03-080507	CHROMIUM	17.6	07/22/09	59623	Y	DUP-8
West Site	M3	WS-M03-080507	CHROMIUM	11.5	08/11/09	60089	Y	WS-M03-080507
West Site	M3	WS-M03-091217	CHROMIUM	15.3	01/06/10	63971	Y	WS-M03-091217
West Site	M3	WS-M03-091217	CHROMIUM	19.2	03/05/10	65037	Y	DUP-48
West Site	M4	WS-M04-080507	CHROMIUM	13	08/11/09	60089	Y	WS-M04-080507
West Site	M4	WS-M04-091218	CHROMIUM	14.2	01/06/10	63971	Y	WS-M04-091218
West Site	M4	WS-M04-091218	CHROMIUM	16.8	01/20/10	64129	Y	DUP-44
West Site	N1	WS-N01-080506	CHROMIUM	13.8	08/11/09	60089	Y	WS-N01-080506
West Site	N2	WS-N02-080506	CHROMIUM	25.6	07/11/09	59382	Y	WS-N02-080506
West Site	N3	WS-N03-080507	CHROMIUM	18.1	06/30/09	58729	Y	WS-N03-080507
West Site	O1	WS-O01-080506	CHROMIUM	23.7	07/11/09	59382	Y	WS-O01-080506
West Site	O2	WS-O02-080506	CHROMIUM	20.2	07/11/09	59382	Y	WS-O02-080506

Table Co-1: Cobalt Data Quality Summary

Laboratory Performance Criteria	Criteria	Measured	Comment
Minimum LCS Recovery	greater than 80%	80%	
Minimum Matrix Spike Recovery	greater than 70%	70%	
Average LCS Recovery	N/A	92%	
Average Matrix Spike Recovery	N/A	88%	
Maximum LCS RPD	less than 20%	13%	
Maximum Laboratory Duplicate RPD	less than 20%	20%	
Average LCS RPD	N/A	3%	
Average Laboratory Duplicate RPD	N/A	5%	
Measurement Quality Objectives	**Critera**	**Measured**	
NPS CRM	Recovery greater than 28.8	Minimum Recovery =	28.9 mg/kg
EQIS CRM	See Note 1		
CVS Split Analysis RPD	RPD less than 35%	Maximum RPD =	19.72 %
CRM Split Analysis RPD	RPD less than 35%	Maximum RPD =	15.47 %
Overall QC Indicator Measurements	**Criteria**	**Measured**	
NPS CRM "Made to" (Bias measure)	N/A	Average Recovery =	81.7 %
NPS Replicate Test (Precision measure)	N/A	Standard Deviation =	0.82 mg/kg
Data Quality Relative to Remediation Goals			
Tier 1 Remediation Goal	21	mg/kg	
Tier 2 Remediation Goal	30	mg/kg	
QC Derived reliance Level	28.7	mg/kg See Note 2	

Comments: All QC measurements for cobalt complied with laboratory performance criteria and measurement quality objectives. Low average matrix spike recovery (89%) and low average recovery of cobalt in NPS CRMs (81.7%) indicate some measurement bias, as does the QC derived confidence level (28.7 mg/kg) slightly lower than the Tier 2 RG (30 mg/kg). As desired, however, all CVS sample cobalt measurements were less than the reliance level and achieved the Tier 1 RG. Consequently, decisions related to RG attainment are not significantly affected by potential measurement bias. It is concluded that cobalt CVS measurements are of acceptable quality and may be used to determine RG achievement.

Note 1: The QAPP required CRMs have only 4 analytes from each analyte group. Cobalt is not one of these analytes.

Note 2. Derived reliance level is calculated as: (Tier 2 RG)(1.2)(Average Recovery)-(0.84)(Standard deviation) = (30)(1.2)(.817)-(0.84)(.82) = 28.7 mg/kg

Table Co-2: Cobalt - NPS CRMs				
Blind NPS CRM Results				
Sample	Result	Analysis Date	Batch	Detect
BOR Sample 1-BOR 56	36.2	5/1/09	57223	Y
BOR SAMPLE 6-BOR 81	31.8	5/1/09	57284	Y
BOR Sample 4-BOR 82	32.3	5/11/09	57543	Y
BOR 83	32.9	5/24/09	57792	Y
BOR Sample 3-BOR 58	31.3	5/24/09	57792	Y
BOR 84	32.4	5/28/09	57847	Y
BOR Sample 7-BOR 105	32.8	5/28/09	57847	Y
BOR 85	28.9	6/9/09	58135	Y
BOR Sample 8-BOR 106	36.3	6/9/09	58135	Y
BOR 86	33.6	6/10/09	58212	Y
BOR 108	38.3	6/20/09	58565	Y
BOR 87	39	6/20/09	58565	Y
BOR 109	36.1	6/29/09	58728	Y
BOR 110	35.1	7/13/09	59381	Y
BOR Sample 9-BOR 107	36.3	7/27/09	59757	Y
BOR 111	35.9	7/29/09	59889	Y

CRMs		Vendor Supplied Information
Mean	34.3	*"Made to"*
Median	34.4	*42.0 mg/kg*
Standard Deviation	2.7	
Sample Variance	7.5	*Upper Acceptance Limit*
Kurtosis	-0.5	*43.5 mg/kg*
Skewness	-0.1	
Range	10.1	*Lower Acceptance Limit*
Minimum	28.9	*28.8 mg/kg*
Maximum	39.0	
Sum	549.2	
Count	16.0	
Largest(2)	38.3	
Smallest(2)	31.3	

Table Co-3: Cobalt - NPS Replicate Tests on a Background Sample				
Results of Replicate Analyses of a Single Sample				
Sample	Result	Analysis Date	Batch	Detect
BOR 112	9.6	5/1/09	57223	Y
BOR 59	8.5	5/1/09	57284	Y
BOR 60	9.4	5/11/09	57543	Y
BOR 113	9.2	5/24/09	57792	Y
BOR 61	9.1	5/24/09	57792	Y
BOR 62	9.7	6/10/09	58212	Y
BOR 63	9.7	6/20/09	58565	Y
BOR 89	9	6/20/09	58565	Y
BOR 115	11.1	6/29/09	58728	Y
BOR 64	10.9	7/9/09	59163	Y
BOR 91	10.8	7/9/09	59163	Y
BOR 116	10.2	7/13/09	59381	Y
BOR 92	10	7/13/09	59381	Y
BOR 65	10.1	7/20/09	59621	Y
BOR 88	10.5	7/29/09	59889	Y
BOR-802	11.4	10/6/09	61790	Y
BOR 804	10.6	11/5/09	62725	Y
BOR-805	10.9	11/5/09	62754	Y
BOR 800	11.1	11/9/09	61414	Y
BOR-807	10.9	11/25/09	63215	Y
BOR-808	9.9	12/8/09	63405	Y
BOR 813	10.9	1/19/10	64128	Y
BOR 815	9.3	1/19/10	64206	Y
BOR-816	11.2	1/27/10	64333	Y
BOR-820	10.8	3/5/10	65036	Y

Replicate analyses of Single Sample	
Mean	10.192
Median	10.200
Standard Deviation	0.816
Sample Variance	0.666
Kurtosis	-1.034
Skewness	-0.354
Range	2.900
Minimum	8.500
Maximum	11.400
Sum	254.800
Count	25.000
Largest(2)	11.200
Smallest(2)	9.000

Table Co-4: Cobalt NPS and EQIS							
Sample	Result	Analysis Date	Batch	Split	Result	Analysis Date	RPD
BOR 503	10.5	5/1/09	57284	ES-T11-080530	10	6/10/2009	5
BOR 506	13.1	5/11/09	57543	ES-S10-080523	15.5	6/10/2009	17
BOR 504	12.2	5/24/09	57792	ES-M05-080527	12.7	5/28/2009	4
BOR 507	10.9	6/9/09	58135	ES-O09-080610			
BOR 508	13.5	6/20/09	58565	ES-Q11-080606	13.1	5/11/2009	3
BOR 510	12.8	6/29/09	58728	OU-8HR-080605	10.9	5/1/2009	16
BOR 501	13.7	7/9/09	59163	WS-L04-080508	14	7/9/2009	2
BOR 505	9.5	7/20/09	59621	WS-K03-080509	9.3	7/8/2009	2
BOR 502	11.8	7/27/09	59757	WS-F05-080612	11.5	8/18/2009	3
BOR 509	13.3	7/27/09	59757	WS-E06-080613	14.9	7/27/2009	11
BOR 500	11.2	7/29/09	59889	WS-F01-080429	10.9	6/20/2009	3
BOR-809	12.1	12/15/09	63529	ES-K03-091103	14.3	11/25/2009	17
BOR-810	10	12/15/09	63529	ES-P07-091022	11.1	11/5/2009	10
BOR-811	12.8	12/15/09	63529	ES-R08-091021	15.6	11/5/2009	20
BOR 814	14.3	1/19/10	64128	ES-J05-091124	12.8	12/15/2009	11
BOR-818	14.2	3/5/10	65036	WS-F05-100111	13.8	1/27/2010	3
BOR-822	13.5	3/5/10	65036	ES-Q08-091228	12.9	1/19/2010	5
DUP-11	7.7	5/1/09	57147	ES-J03-080513	8.4	6/20/2009	9
DUP-17	10	5/1/09	57284	ES-F01-080529	10.9	5/11/2009	9
DUP-15	14.3	5/11/09	57543	ES-J02-080527	13.6	5/24/2009	5
DUP-18	9.2	5/11/09	57543	ES-J04-080530	9.2	5/24/2009	0
DUP-12	13.7	5/24/09	57792	ES-P06-080515	13	6/9/2009	5
DUP-16	11.5	5/24/09	57792	ES-P04-080528	11.4	6/9/2009	1
DUP-19	8.2	5/28/09	57847	ES-K05-080605	8.1	5/28/2009	1
DUP-13	11.7	6/9/09	58135	ES-T08-080522	12.1	6/10/2009	3
DUP-14	12.6	6/10/09	58212	ES-T10-080523	12.3	6/10/2009	2
DUP-3	9.6	6/20/09	58565	WS-C01-080501	10.3	6/20/2009	7
DUP-4	14.9	6/20/09	58565	WS-G01-080501	14.5	6/29/2009	3
DUP-5	10.3	6/29/09	58728	WS-I01-080501	10.4	6/29/2009	1
DUP-6	12.6	6/29/09	58728	WS-J01-080505	12.5	6/29/2009	1
DUP-7	11.3	7/9/09	59163	WS-M01-080505	10.9	7/9/2009	4
DUP-9	14	7/9/09	59163	WS-L04-080508	14	7/9/2009	0
DUP-1	13.6	7/13/09	59381	WS-E02-080428	13.4	7/20/2009	1
DUP-2	12.5	7/13/09	59381	WS-D02-080429	13	7/20/2009	4
DUP-8	6.4	7/20/09	59621	WS-M03-080507	6.7	8/5/2009	5
DUP-10	8.1	7/27/09	59757	WS-K04-080513	8.2	7/8/2009	1
DUP-37	15.6	10/5/09	61790	ES-S17-090910	13.9	9/23/2009	12
DUP-38	13.2	11/5/09	62725	ES-R11-090910	12.2	11/9/2009	8
DUP-39	13.2	11/5/09	62725	ES-C01-090910	12.5	11/9/2009	5
DUP-40	11.9	11/5/09	62754	ES-A01-102109			
DUP-44	8	1/19/10	64128	WS-M04-091218	7.2	1/5/2010	11
DUP-45	14.3	1/19/10	64128	ES-J05-091124	12.8	12/15/2009	11
DUP-46	13.1	1/19/10	64206	ES-R08-091021	15.6	11/5/2009	17
DUP-47	18.9	1/27/10	64333	ES-K02-091103	19.7	11/25/2009	4
DUP-48	10.6	3/5/10	65036	WS-M03-091217	10.9	1/5/2010	3

Table Co-4: Cobalt NPS and EQIS (continued)

RPD of Sample Splits	
Mean	6.128
Median	4.145
Standard Deviation	5.281
Sample Variance	27.887
Kurtosis	0.205
Skewness	1.074
Range	19.718
Minimum	0.000
Maximum	19.718
Sum	263.509
Count	43.000
Largest(2)	17.422
Smallest(2)	0.000

Table Co-5: Cobalt EQIS CRMs						
Results of Duplicate Analysis of EQIS CRMs						
Sample	Result	Date	Batch	Detect	Average	RPD
ES-Z11-080605A	37.5	5/1/09	57147	Y		
ES-Z11-080605B	37.5	5/1/09	57147	Y	37.50	0.00
ES-Z09-080529A	34.1	5/1/09	57284	Y		
ES-Z09-080529B	33.5	5/1/09	57284	Y	33.80	1.78
ES-Z12-080606A	33.9	5/1/09	57284	Y		
ES-Z12-080606B	33.8	5/1/09	57284	Y	33.85	0.30
ES-Z05-080519A	37.6	5/11/09	57543	Y		
ES-Z05-080519B	37.6	5/11/09	57543	Y	37.60	0.00
ES-Z06-080520A	36.6	5/11/09	57543	Y		
ES-Z06-080520B	36	5/11/09	57543	Y	36.30	1.65
ES-Z07-080522A	37.3	5/24/09	57792	Y		
ES-Z07-080522B	36.7	5/24/09	57792	Y	37.00	1.62
ES-Z13-080610A	33.4	5/28/09	57847	Y		
ES-Z13-080610B	35.3	5/28/09	57847	Y	34.35	5.53
ES-Z10-080602A	32.8	6/9/09	58135	Y		
ES-Z10-080602B	38.3	6/9/09	58135	Y	35.55	15.47
ES-Z08-080527A	38.2	6/10/09	58212	Y		
ES-Z08-080527B	38.9	6/10/09	58212	Y	38.55	1.82
ES-Z14-080611A	43.3	6/20/09	58565	Y		
ES-Z14-080611B	42.4	6/20/09	58565	Y	42.85	2.10
ES-Z06-080520C	39.8	6/29/09	58728	Y		
ES-Z06-080520D	42.1	6/29/09	58728	Y	40.95	5.62
ES-Z05-080519C	46.7	7/9/09	59163	Y		
ES-Z05-080519D	40.1	7/9/09	59163	Y	43.40	15.21
ES-Z19-080624A	38.3	7/13/09	59381	Y		
ES-Z19-080624B	38.3	7/13/09	59381	Y	38.30	0.00
WS-Z17-080618A	38.3	7/13/09	59381	Y		
WS-Z17-080618B	37.9	7/13/09	59381	Y	38.10	1.05
WS-Z15-080613A	38.7	7/20/09	59621	Y		
WS-Z15-080613B	39.1	7/20/09	59621	Y	38.90	1.03
WS-Z18-080620A	38.5	7/20/09	59621	Y		
WS-Z18-080620B	39.5	7/20/09	59621	Y	39.00	2.56
WS-Z16-080617A	*39.8*	7/29/09	59889	Y		
WS-Z16-080617B	39.5	7/29/09	59889	Y	39.65	0.76
ES-Z22-091021A	4.4	11/5/09	62754	Y		
ES-Z22-091021B	4	11/5/09	62754	Y	4.20	9.52
ES-Z23-091022A	43.5	11/5/09	62754	Y		
ES-Z23-091022B	42.9	11/5/09	62754	Y	43.20	1.39
ES-Z24-091103A	40.9	11/25/09	63215	Y		
ES-Z24-091103B	40.7	11/25/09	63215	Y	40.80	0.49
ES-Z25-091104A	43	11/25/09	63215	Y		
ES-Z25-091104B	42	11/25/09	63215	Y	42.50	2.35
ES-Z26-091105A	35.6	12/8/09	63405	Y		
ES-Z26-091105B	35.7	12/8/09	63405	Y	35.65	0.28
ES-Z27-091106A	35.4	12/8/09	63405	Y		
ES-Z27-091106B	35.2	12/8/09	63405	Y	35.30	0.57
WS-Z29-091217A	38.8	1/5/10	63970	Y		
WS-Z29-091217B	40.3	1/5/10	63970	Y	39.55	3.79
WS-Z30-091230A	38.4	1/19/10	64128	Y		
WS-Z30-091230B	37.8	1/19/10	64128	Y	38.10	1.57
WS-Z31-100107A	39.1	1/19/10	64206	Y		
WS-Z31-100107B	37.6	1/19/10	64206	Y	38.35	3.91

Table Co-5: Cobalt EQIS CRMs (continued)

Results of Duplicate Analysis of EQIS CRMs

Sample	Result	Date	Batch	Detect	Average	RPD
WS-Z32-100113A	39.3	1/27/10	64333	Y		
WS-Z32-100113B	38.9	1/27/10	64333	Y	39.10	1.02
ES-Z33-100225A	39.6	3/5/10	65036	Y		
ES-Z33-100225B	40.1	3/5/10	65036	Y	39.85	1.25

Analysis of EQIS CRMs	
Mean	37
Median	38
Standard Deviation	7
Sample Variance	49
Kurtosis	17
Skewness	-4
Range	43
Minimum	4
Maximum	47
Sum	2085
Count	56
Largest(2)	44
Smallest(2)	4

RPD of EQIS CRMs	
Mean	3
Median	2
Standard Deviation	4
Sample Variance	17
Kurtosis	5
Skewness	2
Range	15
Minimum	0
Maximum	15
Sum	83
Count	28
Largest(2)	15
Smallest(2)	0

Table Co-6: Cobalt Laboratory MS and LCS

Matrix Spike Recovery %	Batch	Order	LCS Recovery %	Batch	Order
90	7160081	4	90	7160081	4
78	49187	7	87	49187	7
70	49189	8	83	49189	8
90	49537	28	91	49537	28
90	49539	30	95	49539	30
96	54626-627	68	93	54626-627	68
88	54821-822	71	90	54821-822	71
80	54891-892	77	85	54891-892	77
80	54915-916	78	85	54915-916	78
91	57147	109	91	57147	109
88	57223	112	91	57223	112
86	57543	127	99	57543	127
79	57792	136	92	57792	136
83	57847	137	87	57847	137
77	58135	149	93	58135	149
123	58212	150	119	58212	150
103	58565	162	109	58565	162
77	58728	166	84	58728	166
83	59163	172	90	59163	172
92	59381	186	95	59381	186
98	59621	190	94	59621	190
99	59757	199	101	59757	199
100	59889	204	93	59889	204
100	60088	213	101	60088	213
81	60439	224	89	60439	224
90	61414	244	88	61414	244
89	61790	250	97	61790	250
91	62725	264	104	62499	259
85	62754	265	94	62754	265
90	63215	281	96	63215	281
80	63405	291	88	63405	291
91	63529	294	85	63529	294
84	63970	301	86	63970	301
86	64128	313	91	64128	313
87	64206	314	87	64206	314
75	64333	330	80	64333	330
74	64435	339	88	64435	339
87	65036	349	94	65036	349
90	70142	367	100	70142	367

Average MS Recovery = 88	%	Average LCS Recovery = 92	%
Minimum MS Recovery = 70	%	Minimum LCS Recovery = 80	%

Table Co-6: Cobalt Laboratory MS and LCS (Graph)

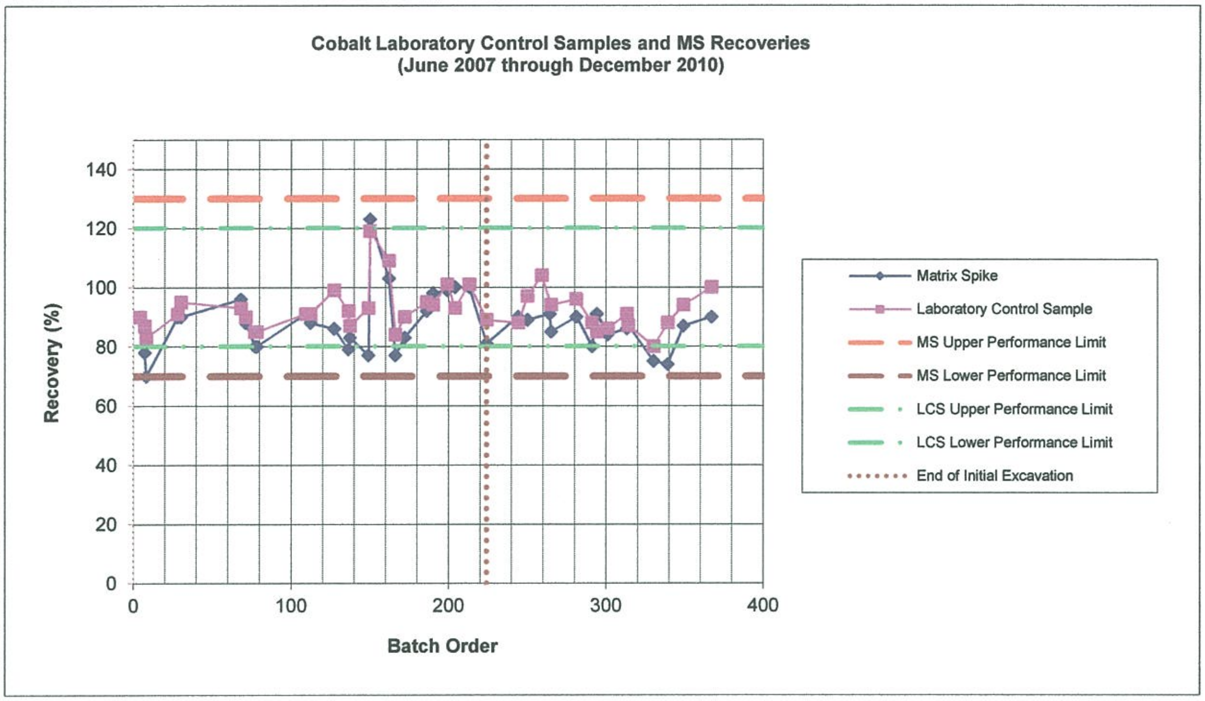
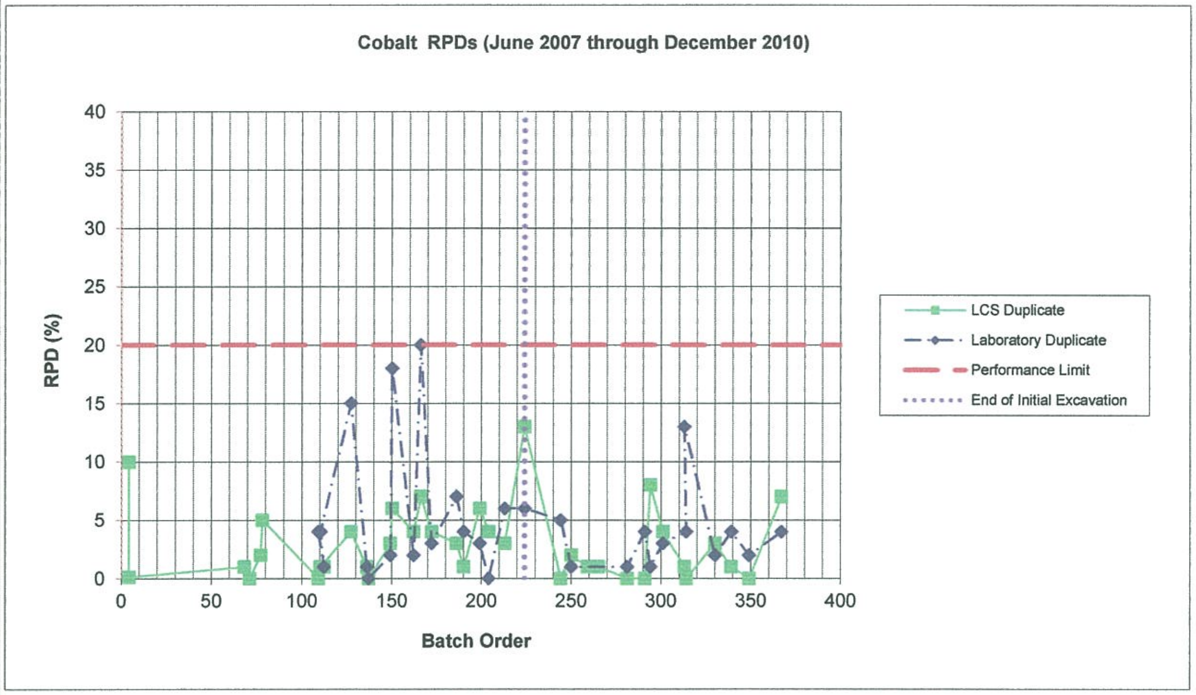


Table Co-7: Cobalt - Laboratory Duplicates and LCS Duplicates					
Laboratory Duplicate RPD		Batch Order	LCS RPD		Batch Order
4	57147	109	10	7160081	4
1	57223	112	0.13	7160081	4
4	57284	110	1	54626-627	68
15	57543	127	0	54821-822	71
1	57792	136	2	54891-892	77
0	57847	137	5	54915-916	78
2	58135	149	0	57147	109
18	58212	150	1	57223	112
2	58565	162	1	57284	110
20	58728	166	4	57543	127
3	59163	172	1	57792	136
7	59381	186	0	57847	137
4	59621	190	3	58135	149
3	59757	199	6	58212	150
0	59889	204	4	58565	162
6	60088	213	7	58728	166
6	60439	224	4	59163	172
5	61414	244	3	59381	186
1	61790	250	1	59621	190
1	63215	281	6	59757	199
4	63405	291	4	59889	204
1	63529	294	3	60088	213
3	63970	301	13	60439	224
4	64206	314	0	61414	244
13	64128	313	2	61790	250
2	64333	330	1	62499	259
4	64435	339	1	62754	265
2	65036	349	0	63215	281
4	70142	367	0	63405	291
			8	63529	294
			4	63970	301
			1	64128	313
			0	64206	314
			3	64333	330
			1	64435	339
			0	65036	349
			7	70142	367
Average Duplicate RPD = 5		%	Average LCS RPD = 3		%
Maximum Duplicate RPD = 20		%	Maximum LCS RPD = 13		%

Table Co-7: Cobalt - Laboratory Duplicates and LCS Duplicates (Graph)



COBALT CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	test_batch_id	detect_flag	sample_name
East Site	A1	ES-A01-090910	COBALT	10.6	09/23/09	61414	Y	ES-A01-090910
East Site	A1	ES-A01-102109	COBALT	11.9	11/05/09	62754	Y	DUP-40
East Site	B1	ES-B01-080623	COBALT	11.6	05/01/09	57147	Y	ES-B01-080623
East Site	C1	ES-C01-080624	COBALT	9	05/01/09	57147	Y	ES-C01-080624
East Site	C1	ES-C01-090910	COBALT	13.2	11/05/09	62725	Y	DUP-39
East Site	C1	ES-C01-090910	COBALT	12.5	11/09/09	61414	Y	ES-C01-090910
East Site	D1	ES-D01-080624	COBALT	12.7	06/09/09	58135	Y	ES-D01-080624
East Site	E1	ES-E01-090910	COBALT	9.5	09/23/09	61414	Y	ES-E01-090910
East Site	E2	ES-E02-090910	COBALT	14.8	09/23/09	61414	Y	ES-E02-090910
East Site	F1	ES-F01-080529	COBALT	10	05/01/09	57284	Y	DUP-17
East Site	F1	ES-F01-080529	COBALT	10.9	05/11/09	57543	Y	ES-F01-080529
East Site	G1	ES-G01-080529	COBALT	8.8	05/11/09	57543	Y	ES-G01-080529
East Site	G2	ES-G02-080605	COBALT	9.9	05/11/09	57543	Y	ES-G02-080605
East Site	H1	ES-H01-080528	COBALT	10.6	05/11/09	57543	Y	ES-H01-080528
East Site	H1	ES-H01-091105	COBALT	10.3	12/08/09	63405	Y	ES-H01-091105
East Site	H2	ES-H02-080515	COBALT	15	05/11/09	57543	Y	ES-H02-080515
East Site	H3	ES-H03-080605	COBALT	8.4	05/24/09	57792	Y	ES-H03-080605
East Site	I1	ES-I01-080529	COBALT	12.4	05/24/09	57792	Y	ES-I01-080529
East Site	I1	ES-I01-091105	COBALT	12.9	12/08/09	63405	Y	ES-I01-091105
East Site	I2	ES-I02-080514	COBALT	13.7	05/24/09	57792	Y	ES-I02-080514
East Site	I3	ES-I03-080513	COBALT	7.6	05/24/09	57792	Y	ES-I03-080513
East Site	I4	ES-I04-080602	COBALT	8.9	05/24/09	57792	Y	ES-I04-080602
East Site	I4	ES-I04-091106	COBALT	10	12/08/09	63405	Y	ES-I04-091106
East Site	J1	ES-J01-080529	COBALT	15	05/24/09	57792	Y	ES-J01-080529
East Site	J2	ES-J02-080527	COBALT	14.3	05/11/09	57543	Y	DUP-15
East Site	J2	ES-J02-080527	COBALT	13.6	05/24/09	57792	Y	ES-J02-080527
East Site	J2	ES-J02-091105	COBALT	10.7	12/08/09	63405	Y	ES-J02-091105
East Site	J3	ES-J03-080513	COBALT	7.7	05/01/09	57147	Y	DUP-11
East Site	J3	ES-J03-080513	COBALT	8.4	06/20/09	58565	Y	ES-J03-080513
East Site	J3	ES-J03-091103	COBALT	12.2	11/25/09	63215	Y	ES-J03-091103
East Site	J4	ES-J04-080530	COBALT	9.2	05/11/09	57543	Y	DUP-18
East Site	J4	ES-J04-080530	COBALT	9.2	05/24/09	57792	Y	ES-J04-080530
East Site	J4	ES-J04-091103	COBALT	14.8	11/25/09	63215	Y	ES-J04-091103
East Site	J5	ES-J05-080602	COBALT	9.2	05/24/09	57792	Y	ES-J05-080602
East Site	J5	ES-J05-091124	COBALT	12.8	12/15/09	63529	Y	ES-J05-091124
East Site	J5	ES-J05-091124	COBALT	14.3	01/19/10	64128	Y	DUP-45
East Site	J5	ES-J05-100112	COBALT	15.4	01/27/10	64333	Y	ES-J05-100112
East Site	K1	ES-K01-080602	COBALT	8.6	05/24/09	57792	Y	ES-K01-080602
East Site	K2	ES-K02-080602	COBALT	9.9	05/11/09	57543	Y	ES-K02-080602
East Site	K2	ES-K02-091103	COBALT	19.7	11/25/09	63215	Y	ES-K02-091103
East Site	K2	ES-K02-091103	COBALT	18.9	01/27/10	64333	Y	DUP-47
East Site	K3	ES-K03-080514	COBALT	9.9	05/24/09	57792	Y	ES-K03-080514

COBALT CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	test_batch_id	detect_flag	sample_name
East Site	K3	ES-K03-091103	COBALT	14.3	11/25/09	63215	Y	ES-K03-091103
East Site	K4	ES-K04-080527	COBALT	12.8	05/28/09	57847	Y	ES-K04-080527
East Site	K5	ES-K05-080605	COBALT	8.1	05/28/09	57847	Y	ES-K05-080605
East Site	K5	ES-K05-080605	COBALT	8.2	05/28/09	57847	Y	DUP-19
East Site	K7	ES-K07-080611	COBALT	11.4	05/01/09	57284	Y	ES-K07-080611
East Site	K7	ES-K07-090924	COBALT	14	10/05/09	61790	Y	ES-K07-090924
East Site	K7	ES-K07-091123	COBALT	13	12/14/09	63529	Y	ES-K07-091123
East Site	L1	ES-L01-080625	COBALT	10	05/28/09	57847	Y	ES-L01-080625
East Site	L2	ES-L02-080625	COBALT	13.7	05/28/09	57847	Y	ES-L02-080625
East Site	L3	ES-L03-080604	COBALT	8.7	05/28/09	57847	Y	ES-L03-080604
East Site	L3	ES-L03-091104	COBALT	18.5	11/25/09	63215	Y	ES-L03-091104
East Site	L4	ES-L04-080604	COBALT	10.1	06/20/09	58565	Y	ES-L04-080604
East Site	L4	ES-L04-091104	COBALT	15.8	11/25/09	63215	Y	ES-L04-091104
East Site	L5	ES-L05-091104	COBALT	14.6	11/25/09	63215	Y	ES-L05-091104
East Site	L6	ES-L06-091104	COBALT	14.2	11/25/09	63215	Y	ES-L06-091104
East Site	M1	ES-M01-080527	COBALT	9.2	05/28/09	57847	Y	ES-M01-080527
East Site	M2	ES-M02-080519	COBALT	14.6	05/28/09	57847	Y	ES-M02-080519
East Site	M3	ES-M03-091022	COBALT	20	11/05/09	62754	Y	ES-M03-091022
East Site	M3	ES-M03-091228	COBALT	16.1	01/19/10	64128	Y	ES-M03-091228
East Site	M4	ES-M04-080515	COBALT	12.6	05/28/09	57847	Y	ES-M04-080515
East Site	M5	ES-M05-080527	COBALT	12.7	05/28/09	57847	Y	ES-M05-080527
East Site	M6	ES-M06-080520	COBALT	13.6	05/28/09	57847	Y	ES-M06-080520
East Site	M6	ES-M06-091105	COBALT	13.8	12/08/09	63405	Y	ES-M06-091105
East Site	M7	ES-M07-091105	COBALT	14.2	12/08/09	63405	Y	ES-M07-091105
East Site	M8	ES-M08-080610	COBALT	9.5	05/01/09	57284	Y	ES-M08-080610
East Site	M8	ES-M08-090924	COBALT	16.8	10/05/09	61790	Y	ES-M08-090924
East Site	M8	ES-M08-091123	COBALT	12	12/15/09	63529	Y	ES-M08-091123
East Site	M9	ES-M09-080611	COBALT	7.4	05/01/09	57284	Y	ES-M09-080611
East Site	N2	ES-N02-080528	COBALT	10.3	05/28/09	57847	Y	ES-N02-080528
East Site	N3	ES-N03-080520	COBALT	14.9	05/28/09	57847	Y	ES-N03-080520
East Site	N4	ES-N04-080519	COBALT	11	05/28/09	57847	Y	ES-N04-080519
East Site	N5	ES-N05-080519	COBALT	11.5	05/28/09	57847	Y	ES-N05-080519
East Site	N5	ES-N05-091105	COBALT	9.7	12/08/09	63405	Y	ES-N05-091105
East Site	N6	ES-N06-080527	COBALT	15.6	06/09/09	58135	Y	ES-N06-080527
East Site	N7	ES-N07-080530	COBALT	14.6	06/09/09	58135	Y	ES-N07-080530
East Site	N7	ES-N07-100225	COBALT	15.4	03/05/10	65036	Y	ES-N07-100225
East Site	N8	ES-N08-080610	COBALT	7.9	05/01/09	57284	Y	ES-N08-080610
East Site	N8	ES-N08-090924	COBALT	17.8	10/05/09	61790	Y	ES-N08-090924
East Site	N8	ES-N08-091124	COBALT	12.6	12/15/09	63529	Y	ES-N08-091124
East Site	N9	ES-N09-080610	COBALT	11.1	05/04/09	57284	Y	ES-N09-080610
East Site	N9	ES-N09-090924	COBALT	13.9	10/05/09	61790	Y	ES-N09-090924
East Site	N10	ES-N10-080610	COBALT	8.8	05/01/09	57284	Y	ES-N10-080610

COBALT CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	test_batch_id	detect_flag	sample_name
East Site	O3	ES-O03-080528	COBALT	12.4	06/09/09	58135	Y	ES-O03-080528
East Site	O4	ES-O04-080515	COBALT	13.4	06/09/09	58135	Y	ES-O04-080515
East Site	O5	ES-O05-080520	COBALT	12.3	06/09/09	58135	Y	ES-O05-080520
East Site	O6	ES-O06-080529	COBALT	10.5	06/09/09	58135	Y	ES-O06-080529
East Site	O6	ES-O06-091105	COBALT	13.8	12/08/09	63405	Y	ES-O06-091105
East Site	O7	ES-O07-100225	COBALT	10.4	03/05/10	65036	Y	ES-O07-100225
East Site	O8	ES-O08-080530	COBALT	11.1	07/27/09	59757	Y	ES-O08-080530
East Site	O8	ES-O08-100225	COBALT	10.6	03/05/10	65036	Y	ES-O08-100225
East Site	O9	ES-O09-091014	COBALT	17.3	11/05/09	62725	Y	ES-O09-091014
East Site	O9	ES-O09-092309	COBALT	15	10/05/09	61790	Y	ES-O09-092309
East Site	O10	ES-O10-091014	COBALT	12.5	11/05/09	62725	Y	ES-O10-091014
East Site	O10	ES-O10-091123	COBALT	9.6	12/14/09	63529	Y	ES-O10-091123
East Site	O10	ES-O10-092309	COBALT	12.3	10/05/09	61790	Y	ES-O10-092309
East Site	P4	ES-P04-080528	COBALT	11.5	05/24/09	57792	Y	DUP-16
East Site	P4	ES-P04-080528	COBALT	11.4	06/09/09	58135	Y	ES-P04-080528
East Site	P5	ES-P05-080513	COBALT	13.6	06/09/09	58135	Y	ES-P05-080513
East Site	P6	ES-P06-080515	COBALT	13.7	05/24/09	57792	Y	DUP-12
East Site	P6	ES-P06-080515	COBALT	13	06/09/09	58135	Y	ES-P06-080515
East Site	P7	ES-P07-080519	COBALT	13.4	05/28/09	57847	Y	ES-P07-080519
East Site	P7	ES-P07-091022	COBALT	11.1	11/05/09	62754	Y	ES-P07-091022
East Site	P8	ES-P08-080530	COBALT	9.1	06/09/09	58135	Y	ES-P08-080530
East Site	P10	ES-P10-080606	COBALT	11.9	05/01/09	57284	Y	ES-P10-080606
East Site	P10	ES-P10-091014	COBALT	13.9	11/05/09	62725	Y	ES-P10-091014
East Site	P10	ES-P10-092309	COBALT	14	10/05/09	61790	Y	ES-P10-092309
East Site	P11	ES-P11-080606	COBALT	12.2	05/01/09	57284	Y	ES-P11-080606
East Site	P11	ES-P11-092309	COBALT	12.5	10/05/09	61790	Y	ES-P11-092309
East Site	Q5	ES-Q05-080520	COBALT	13.1	06/09/09	58135	Y	ES-Q05-080520
East Site	Q5	ES-Q05-091105	COBALT	15.7	12/08/09	63405	Y	ES-Q05-091105
East Site	Q6	ES-Q06-091021	COBALT	16.3	11/05/09	62754	Y	ES-Q06-091021
East Site	Q7	ES-Q07-091021	COBALT	16.6	11/05/09	62754	Y	ES-Q07-091021
East Site	Q7	ES-Q07-091228	COBALT	14.7	01/19/10	64128	Y	ES-Q07-091228
East Site	Q8	ES-Q08-091021	COBALT	14.1	11/05/09	62754	Y	ES-Q08-091021
East Site	Q8	ES-Q08-091228	COBALT	12.9	01/19/10	64128	Y	ES-Q08-091228
East Site	Q9	ES-Q09-080612	COBALT	12.6	06/09/09	58135	Y	ES-Q09-080612
East Site	Q10	ES-Q10-080606	COBALT	15	05/11/09	57543	Y	ES-Q10-080606
East Site	Q10	ES-Q10-091123	COBALT	11.1	12/14/09	63529	Y	ES-Q10-091123
East Site	Q10	ES-Q10-092309	COBALT	14.8	10/05/09	61790	Y	ES-Q10-092309
East Site	Q11	ES-Q11-080606	COBALT	13.1	05/11/09	57543	Y	ES-Q11-080606
East Site	Q17	ES-Q17-080609	COBALT	8.6	05/01/09	57147	Y	ES-Q17-080609
East Site	R5	ES-R05-080521	COBALT	9.8	06/09/09	58135	Y	ES-R05-080521
East Site	R5	ES-R05-091105	COBALT	15.5	12/08/09	63405	Y	ES-R05-091105
East Site	R6	ES-R06-080521	COBALT	20.2	06/20/09	58565	Y	ES-R06-080521

COBALT CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	test_batch_id	detect_flag	sample_name
East Site	R7	ES-R07-080521	COBALT	17.7	06/10/09	58212	Y	ES-R07-080521
East Site	R8	ES-R08-091021	COBALT	15.6	11/05/09	62754	Y	ES-R08-091021
East Site	R8	ES-R08-091021	COBALT	13.1	01/19/10	64206	Y	DUP-46
East Site	R9	ES-R09-080520	COBALT	10.6	06/10/09	58212	Y	ES-R09-080520
East Site	R10	ES-R10-080602	COBALT	10.6	06/10/09	58212	Y	ES-R10-080602
East Site	R11	ES-R11-080605	COBALT	13.5	05/11/09	57543	Y	ES-R11-080605
East Site	R11	ES-R11-090910	COBALT	13.2	11/05/09	62725	Y	DUP-38
East Site	R11	ES-R11-090910	COBALT	12.2	11/09/09	61414	Y	ES-R11-090910
East Site	R12	ES-R12-080611	COBALT	9.8	05/11/09	57543	Y	ES-R12-080611
East Site	R16	ES-R16-080605	COBALT	10	05/01/09	57147	Y	ES-R16-080605
East Site	R17	ES-R17-080606	COBALT	11.2	05/01/09	57147	Y	ES-R17-080606
East Site	S5	ES-S05-080521	COBALT	18.1	06/10/09	58212	Y	ES-S05-080521
East Site	S6	ES-S06-080521	COBALT	11.3	06/10/09	58212	Y	ES-S06-080521
East Site	S7	ES-S07-080521	COBALT	23.9	06/10/09	58212	Y	ES-S07-080521
East Site	S8	ES-S08-091015	COBALT	19.9	11/05/09	62725	Y	ES-S08-091015
East Site	S9	ES-S09-080522	COBALT	16.2	06/10/09	58212	Y	ES-S09-080522
East Site	S10	ES-S10-080523	COBALT	15.5	06/10/09	58212	Y	ES-S10-080523
East Site	S11	ES-S11-080528	COBALT	9	06/10/09	58212	Y	ES-S11-080528
East Site	S12	ES-S12-080609	COBALT	16	05/01/09	57147	Y	ES-S12-080609
East Site	S13	ES-S13-080610	COBALT	9.9	05/01/09	57147	Y	ES-S13-080610
East Site	S17	ES-S17-090910	COBALT	13.9	09/23/09	61414	Y	ES-S17-090910
East Site	S17	ES-S17-090910	COBALT	15.6	10/05/09	61790	Y	DUP-37
East Site	S18	ES-S18-080606	COBALT	10.8	05/01/09	57147	Y	ES-S18-080606
East Site	T7	ES-T07-080612	COBALT	14.5	06/10/09	58212	Y	ES-T07-080612
East Site	T8	ES-T08-080522	COBALT	11.7	06/09/09	58135	Y	DUP-13
East Site	T8	ES-T08-080522	COBALT	12.1	06/10/09	58212	Y	ES-T08-080522
East Site	T9	ES-T09-080522	COBALT	10	06/10/09	58212	Y	ES-T09-080522
East Site	T10	ES-T10-080523	COBALT	12.6	06/10/09	58212	Y	DUP-14
East Site	T10	ES-T10-080523	COBALT	12.3	06/10/09	58212	Y	ES-T10-080523
East Site	T10	ES-T10-091015	COBALT	17	11/05/09	62725	Y	ES-T10-091015
East Site	T11	ES-T11-080530	COBALT	10	06/10/09	58212	Y	ES-T11-080530
East Site	T12	ES-T12-080609	COBALT	7.6	05/01/09	57147	Y	ES-T12-080609
East Site	T13	ES-T13-080609	COBALT	10.5	05/01/09	57147	Y	ES-T13-080609
East Site	T14	ES-T14-080610	COBALT	11.5	05/01/09	57147	Y	ES-T14-080610
East Site	U10	ES-U10-080523	COBALT	11.9	06/10/09	58212	Y	ES-U10-080523
East Site	U11	ES-U11-080602	COBALT	10.3	06/20/09	58565	Y	ES-U11-080602
East Site	U13	ES-U13-080610	COBALT	10.2	05/01/09	57284	Y	ES-U13-080610
East Site	U14	ES-U14-080610	COBALT	9.9	05/01/09	57284	Y	ES-U14-080610
East Site	V11	ES-V11-080529	COBALT	13.1	06/20/09	58565	Y	ES-V11-080529
East Site	V14	ES-V14-080605	COBALT	10.3	05/01/09	57284	Y	ES-V14-080605
East Site	W12	ES-W12-080527	COBALT	11	06/20/09	58565	Y	ES-W12-080527
West Site	A4	WS-A04-080626	COBALT	12.2	07/13/09	59381	Y	WS-A04-080626

COBALT CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	test_batch_id	detect_flag	sample_name
West Site	B2	WS-B02-100120	COBALT	9.4	02/04/10	64435	Y	WS-B02-100120
West Site	B3	WS-B03-080502	COBALT	15	07/13/09	59381	Y	WS-B03-080502
West Site	B4	WS-B04-080626	COBALT	12.4	07/13/09	59381	Y	WS-B04-080626
West Site	B5	WS-B05-080626	COBALT	12.1	07/27/09	59757	Y	WS-B05-080626
West Site	C1	WS-C01-080501	COBALT	9.6	06/20/09	58565	Y	DUP-3
West Site	C1	WS-C01-080501	COBALT	10.3	06/20/09	58565	Y	WS-C01-080501
West Site	C2	WS-C02-080428	COBALT	8.4	07/20/09	59621	Y	WS-C02-080428
West Site	C2	WS-C02-100120	COBALT	8.1	02/04/10	64435	Y	WS-C02-100120
West Site	C3	WS-C03-080620	COBALT	13.7	07/20/09	59621	Y	WS-C03-080620
West Site	C4	WS-C04-080623	COBALT	11.6	07/20/09	59621	Y	WS-C04-080623
West Site	C5	WS-C05-080620	COBALT	14.7	07/27/09	59757	Y	WS-C05-080620
West Site	C5	WS-C05-100112	COBALT	12.4	01/27/10	64333	Y	WS-C05-100112
West Site	C6	WS-C06-080624	COBALT	15.2	07/27/09	59757	Y	WS-C06-080624
West Site	C6	WS-C06-091013	COBALT	15.8	11/05/09	62725	Y	WS-C06-091013
West Site	D1	WS-D01-080430	COBALT	10.2	06/20/09	58565	Y	WS-D01-080430
West Site	D2	WS-D02-080429	COBALT	12.5	07/13/09	59381	Y	DUP-2
West Site	D2	WS-D02-080429	COBALT	13	07/20/09	59621	Y	WS-D02-080429
West Site	D3	WS-D03-080620	COBALT	13.2	07/20/09	59621	Y	WS-D03-080620
West Site	D4	WS-D04-080623	COBALT	12.1	08/18/09	60439	Y	WS-D04-080623
West Site	D4	WS-D04-091230	COBALT	10.6	01/19/10	64128	Y	WS-D04-091230
West Site	D5	WS-D05-080620	COBALT	11.4	07/27/09	59757	Y	WS-D05-080620
West Site	D5	WS-D05-100111	COBALT	12	01/27/10	64333	Y	WS-D05-100111
West Site	D6	WS-D06-080619	COBALT	16.5	07/27/09	59757	Y	WS-D06-080619
West Site	D6	WS-D06-091013	COBALT	18.4	11/05/09	62725	Y	WS-D06-091013
West Site	D7	WS-D07-080619	COBALT	14.4	07/27/09	59757	Y	WS-D07-080619
West Site	D7	WS-D07-091013	COBALT	16.3	11/05/09	62725	Y	WS-D07-091013
West Site	E1	WS-E01-080430	COBALT	12.1	06/20/09	58565	Y	WS-E01-080430
West Site	E2	WS-E02-080428	COBALT	13.6	07/13/09	59381	Y	DUP-1
West Site	E2	WS-E02-080428	COBALT	13.4	07/20/09	59621	Y	WS-E02-080428
West Site	E2	WS-E02-100115	COBALT	12.3	02/04/10	64435	Y	WS-E02-100115
West Site	E3	WS-E03-080619	COBALT	11.7	07/20/09	59621	Y	WS-E03-080619
West Site	E4	WS-E04-080613	COBALT	13.4	07/27/09	59757	Y	WS-E04-080613
West Site	E4	WS-E04-091230	COBALT	11.5	01/19/10	64128	Y	WS-E04-091230
West Site	E5	WS-E05-080613	COBALT	9.4	07/27/09	59757	Y	WS-E05-080613
West Site	E5	WS-E05-100111	COBALT	14.6	01/27/10	64333	Y	WS-E05-100111
West Site	E6	WS-E06-080613	COBALT	14.9	07/27/09	59757	Y	WS-E06-080613
West Site	E6	WS-E06-091228	COBALT	13	01/19/10	64128	Y	WS-E06-091228
West Site	E7	WS-E07-080613	COBALT	15.3	07/27/09	59757	Y	WS-E07-080613
West Site	E7	WS-E07-091228	COBALT	10.6	01/19/10	64128	Y	WS-E07-091228
West Site	E8	WS-E08-091228	COBALT	12.4	01/19/10	64128	Y	WS-E08-091228
West Site	F1	WS-F01-080429	COBALT	10.9	06/20/09	58565	Y	WS-F01-080429
West Site	F1	WS-F01-100115	COBALT	8.4	02/04/10	64435	Y	WS-F01-100115

COBALT CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	test_batch_id	detect_flag	sample_name
West Site	F2	WS-F02-080429	COBALT	13.2	07/20/09	59621	Y	WS-F02-080429
West Site	F2	WS-F02-100115	COBALT	14.5	02/04/10	64435	Y	WS-F02-100115
West Site	F3	WS-F03-080619	COBALT	15.1	07/20/09	59621	Y	WS-F03-080619
West Site	F3	WS-F03-100115	COBALT	10.9	02/04/10	64435	Y	WS-F03-100115
West Site	F4	WS-F04-080616	COBALT	13	07/29/09	59889	Y	WS-F04-080616
West Site	F4	WS-F04-091230	COBALT	11.8	01/19/10	64128	Y	WS-F04-091230
West Site	F5	WS-F05-080612	COBALT	11.5	08/18/09	60439	Y	WS-F05-080612
West Site	F5	WS-F05-100111	COBALT	13.8	01/27/10	64333	Y	WS-F05-100111
West Site	F6	WS-F06-080612	COBALT	33.9	07/29/09	59889	Y	WS-F06-080612
West Site	F6	WS-F06-091228	COBALT	15.6	01/19/10	64128	Y	WS-F06-091228
West Site	F7	WS-F07-080617	COBALT	13.7	06/29/09	58728	Y	WS-F07-080617
West Site	F8	WS-F08-080618	COBALT	11.7	06/29/09	58728	Y	WS-F08-080618
West Site	G1	WS-G01-080501	COBALT	14.9	06/20/09	58565	Y	DUP-4
West Site	G1	WS-G01-080501	COBALT	14.5	06/29/09	58728	Y	WS-G01-080501
West Site	G1	WS-G01-100113	COBALT	12.3	01/27/10	64333	Y	WS-G01-100113
West Site	G1	WS-G01-100223	COBALT	11.3	03/05/10	65036	Y	WS-G01-100223
West Site	G2	WS-G02-080618	COBALT	13.6	07/20/09	59621	Y	WS-G02-080618
West Site	G2	WS-G02-100113	COBALT	12.8	01/27/10	64333	Y	WS-G02-100113
West Site	G3	WS-G03-080619	COBALT	10.8	07/20/09	59621	Y	WS-G03-080619
West Site	G4	WS-G04-080616	COBALT	12.7	07/29/09	59889	Y	WS-G04-080616
West Site	G5	WS-G05-100108	COBALT	35.4	01/19/10	64206	Y	WS-G05-100108
West Site	G5	WS-G05-100223	COBALT	18	03/05/10	65036	Y	WS-G05-100223
West Site	G6	WS-G06-080616	COBALT	16	07/29/09	59889	Y	WS-G06-080616
West Site	G6	WS-G06-100107	COBALT	11.9	01/19/10	64206	Y	WS-G06-100107
West Site	G7	WS-G07-080617	COBALT	24.6	06/29/09	58728	Y	WS-G07-080617
West Site	G7	WS-G07-100105	COBALT	13.6	01/19/10	64206	Y	WS-G07-100105
West Site	H1	WS-H01-080501	COBALT	14.7	06/29/09	58728	Y	WS-H01-080501
West Site	H2	WS-H02-080618	COBALT	13.3	07/20/09	59621	Y	WS-H02-080618
West Site	H2	WS-H02-100113	COBALT	12.5	01/27/10	64333	Y	WS-H02-100113
West Site	H3	WS-H03-080619	COBALT	11	07/29/09	59889	Y	WS-H03-080619
West Site	H4	WS-H04-080616	COBALT	11.9	07/29/09	59889	Y	WS-H04-080616
West Site	H5	WS-H05-100107	COBALT	14.4	01/19/10	64206	Y	WS-H05-100107
West Site	H6	WS-H06-080617	COBALT	17.3	06/29/09	58728	Y	WS-H06-080617
West Site	I1	WS-I01-080501	COBALT	10.3	06/29/09	58728	Y	DUP-5
West Site	I1	WS-I01-080501	COBALT	10.4	06/29/09	58728	Y	WS-I01-080501
West Site	I1	WS-I01-091013	COBALT	11.3	11/05/09	62725	Y	WS-I01-091013
West Site	I2	WS-I02-080618	COBALT	13.7	07/27/09	59757	Y	WS-I02-080618
West Site	I2	WS-I02-091014	COBALT	13.9	11/05/09	62725	Y	WS-I02-091014
West Site	I2	WS-I02-100113	COBALT	12.3	01/27/10	64333	Y	WS-I02-100113
West Site	I3	WS-I03-080618	COBALT	14.6	07/29/09	59889	Y	WS-I03-080618
West Site	I3	WS-I03-091013	COBALT	13.3	11/05/09	62725	Y	WS-I03-091013
West Site	I3	WS-I03-100113	COBALT	11.1	01/27/10	64333	Y	WS-I03-100113

COBALT CVS Results from 12/16/2010 database								
Site	quarter_acre _grid	sample_location	chemical_name	result_value	analysis _date	test_batch_ id	detect _flag	sample_name
West Site	I4	WS-I04-080617	COBALT	12.1	07/29/09	59889	Y	WS-I04-080617
West Site	I4	WS-I04-100106	COBALT	10.5	01/19/10	64206	Y	WS-I04-100106
West Site	I5	WS-I05-080617	COBALT	34.7	06/29/09	58728	Y	WS-I05-080617
West Site	I5	WS-I05-091013	COBALT	42.7	11/05/09	62725	Y	WS-I05-091013
West Site	I5	WS-I05-100107	COBALT	11.1	01/19/10	64206	Y	WS-I05-100107
West Site	I6	WS-I06-080617	COBALT	37.8	06/29/09	58728	Y	WS-I06-080617
West Site	I6	WS-I06-100105	COBALT	13.5	01/19/10	64206	Y	WS-I06-100105
West Site	J1	WS-J01-080505	COBALT	12.5	06/29/09	58728	Y	WS-J01-080505
West Site	J1	WS-J01-080505	COBALT	12.6	06/29/09	58728	Y	DUP-6
West Site	J1	WS-J01-091013	COBALT	12.9	11/05/09	62725	Y	WS-J01-091013
West Site	J1	WS-J01-100112	COBALT	13.5	01/27/10	64333	Y	WS-J01-100112
West Site	J2	WS-J02-080624	COBALT	13.3	06/29/09	58728	Y	WS-J02-080624
West Site	J2	WS-J02-100112	COBALT	12.8	01/27/10	64333	Y	WS-J02-100112
West Site	J3	WS-J03-080620	COBALT	11.6	07/07/09	59163	Y	WS-J03-080620
West Site	J4	WS-J04-080617	COBALT	17.6	07/08/09	59163	Y	WS-J04-080617
West Site	J4	WS-J04-100106	COBALT	14.5	01/19/10	64206	Y	WS-J04-100106
West Site	J5	WS-J05-080618	COBALT	13.9	07/08/09	59163	Y	WS-J05-080618
West Site	K1	WS-K01-080505	COBALT	11.2	07/08/09	59163	Y	WS-K01-080505
West Site	K1	WS-K01-091013	COBALT	11.8	11/05/09	62725	Y	WS-K01-091013
West Site	K2	WS-K02-080509	COBALT	12.5	07/08/09	59163	Y	WS-K02-080509
West Site	K3	WS-K03-080509	COBALT	9.3	07/08/09	59163	Y	WS-K03-080509
West Site	K4	WS-K04-080513	COBALT	8.2	07/08/09	59163	Y	WS-K04-080513
West Site	K4	WS-K04-080513	COBALT	8.1	07/27/09	59757	Y	DUP-10
West Site	K4	WS-K04-100106	COBALT	15.2	01/19/10	64206	Y	WS-K04-100106
West Site	K5	WS-K05-080509	COBALT	8.8	07/08/09	59163	Y	WS-K05-080509
West Site	L1	WS-L01-080505	COBALT	10	07/08/09	59163	Y	WS-L01-080505
West Site	L2	WS-L02-080508	COBALT	11.9	07/08/09	59163	Y	WS-L02-080508
West Site	L3	WS-L03-080508	COBALT	7.7	07/08/09	59163	Y	WS-L03-080508
West Site	L4	WS-L04-080508	COBALT	14.4	07/09/09	59163	Y	WS-L04-080508
West Site	L4	WS-L04-080508	COBALT	14	07/09/09	59163	Y	DUP-9
West Site	M1	WS-M01-080505	COBALT	11.3	07/09/09	59163	Y	DUP-7
West Site	M1	WS-M01-080505	COBALT	10.9	07/09/09	59163	Y	WS-M01-080505
West Site	M2	WS-M02-080507	COBALT	10.1	07/27/09	59757	Y	WS-M02-080507
West Site	M3	WS-M03-080507	COBALT	6.4	07/20/09	59621	Y	DUP-8
West Site	M3	WS-M03-080507	COBALT	6.7	08/05/09	60088	Y	WS-M03-080507
West Site	M3	WS-M03-091217	COBALT	10.9	01/05/10	63970	Y	WS-M03-091217
West Site	M3	WS-M03-091217	COBALT	10.6	03/05/10	65036	Y	DUP-48
West Site	M4	WS-M04-080507	COBALT	7.9	08/05/09	60088	Y	WS-M04-080507
West Site	M4	WS-M04-091218	COBALT	7.2	01/05/10	63970	Y	WS-M04-091218
West Site	M4	WS-M04-091218	COBALT	8	01/19/10	64128	Y	DUP-44
West Site	N1	WS-N01-080506	COBALT	10.6	08/05/09	60088	Y	WS-N01-080506
West Site	N2	WS-N02-080506	COBALT	8.9	07/13/09	59381	Y	WS-N02-080506

COBALT CVS Results from 12/16/2010 database								
Site	quarter_acre _grid	sample_location	chemical_name	result_value	analysis _date	test_batch_ id	detect _flag	sample_name
West Site	N3	WS-N03-080507	COBALT	4.9	06/29/09	58728	Y	WS-N03-080507
West Site	O1	WS-O01-080506	COBALT	8.7	07/13/09	59381	Y	WS-O01-080506
West Site	O2	WS-O02-080506	COBALT	4.8	07/13/09	59381	Y	WS-O02-080506

Table Cu-1: Copper Data Quality Summary			
Laboratory Performance Criteria	Criteria	Measured	Comment
Minimum LCS Recovery	greater than 80%	84%	
Minimum Matrix Spike Recovery	greater than 70%	77%	
Average LCS Recovery	N/A	96%	
Average Matrix Spike Recovery	N/A	88%	
Maximum LCS RPD	less than 20%	11%	
Maximum Laboratory Duplicate RPD	less than 20%	22%	
Average LCS RPD	N/A	3%	
Average Laboratory Duplicate RPD	N/A	4%	
Measurement Quality Objectives	Critera	Measured	
NPS CRM	Recovery greater than 52.6	Minimum Recovery =	52.1 mg/kg
EQIS CRM	Recovery greater than 55.9	Minimum Recovery =	65 mg/kg
CVS Split Analysis RPD	RPD less than 35%	Maximum RPD =	53 %
CRM Split Analysis RPD	RPD less than 35%	Maximum RPD =	8 %
Overall QC Indicator Measurements	Criteria	Measured	
NPS CRM "Made to" (Bias measure)	N/A	Average Recovery =	89.3 %
NPS Replicate Test (Precision measure)	N/A	Standard Deviation =	2.65 mg/kg
Data Quality Relative to Remediation Goals			
Tier 1 Remediation Goal		34 mg/kg	
Tier 2 Remediation Goal	None		
QC Derived Reliance Level		34 mg/kg See Note 1	

Comments: Copper analyses attained laboratory performance criteria related to accuracy and precision. A low recovery of one NPS CRM and a high recovery of one EQIS CRM likely reflect imprecision, also indicated by a high EQIS CRM maximum RPD (65%) and a high laboratory duplicate RPD in the last batch that was analyzed. An average matrix spike recovery of 88% suggests a bias due to matrix effects favoring low measurements. The calculated derived reliance level (34 mg/kg) is the same as the RG (34 mg/kg). Because the reliance level is equal to the RG, the QC is generally acceptable, and no issues were identified in a review of all QC data, it is concluded that copper CVS measurements are of acceptable quality and may be used to determine RG achievement.

Note 1. Derived reliance level is calculated as: (Tier 1 RG)(1.2)(Average Recovery)-(0.84)(Standard deviation) = (34)(1.2)(.893)-(0.84)(2.65) = 34 mg/kg

Table Cu-2: Copper - NPS CRMs				
Blind NPS CRM Results				
Sample	Result	Analysis Date	Batch	Detect
BOR Sample 1-BOR 56	61.7	5/3/09	57225	Y
BOR SAMPLE 6-BOR 81	59.2	5/4/09	57431	Y
BOR Sample 4-BOR 82	55.4	5/6/09	57448	Y
BOR 83	63	5/27/09	57791	Y
BOR Sample 3-BOR 58	61	5/27/09	57791	Y
BOR 84	69.8	5/28/09	57849	Y
BOR Sample 7-BOR 105	64.9	5/28/09	57849	Y
BOR 85	55	6/5/09	58138	Y
BOR Sample 8-BOR 106	55.5	6/5/09	58138	Y
BOR 86	61	6/11/09	58214	Y
BOR 108	63.6	6/19/09	58564	Y
BOR 87	65.9	6/19/09	58564	Y
BOR 109	60.2	6/30/09	58730	Y
BOR 110	52.1	7/11/09	59383	Y
BOR Sample 9-BOR 107	64.5	7/24/09	59759	Y
BOR 111	58.9	7/30/09	59891	Y

CRMs		Vendor Supplied Information
Mean	60.7	*Made to*
Median	61.0	*68.0 mg/kg*
Standard Deviation	4.6	
Sample Variance	21.6	*Upper Acceptance Limit*
Kurtosis	-0.2	*74.6 mg/kg*
Skewness	-0.1	
Range	17.7	*Lower Acceptance Limit*
Minimum	52.1	*52.6 mg/kg*
Maximum	69.8	
Sum	971.7	
Count	16.0	
Largest(2)	65.9	
Smallest(2)	55.0	

Table Cu-3: Copper- NPS Replicate Tests on a Background Sample				
Results of Replicate Analyses of a Single Sample				
Sample	Result	Analysis Date	Batch	Detect
BOR 112	13.1	5/4/09	57225	Y
BOR 59	13.3	5/5/09	57431	Y
BOR 60	12.1	5/6/09	57448	Y
BOR 113	13.6	5/27/09	57791	Y
BOR 61	13.4	5/27/09	57791	Y
BOR 62	12	6/11/09	58214	Y
BOR 63	13.1	6/22/09	58564	Y
BOR 89	13.3	6/22/09	58564	Y
BOR 115	13.4	6/30/09	58730	Y
BOR 64	14.3	7/8/09	59166	Y
BOR 91	13.5	7/8/09	59166	Y
BOR 92	11.4	7/11/09	59383	Y
BOR 116	15.1	7/13/09	59383	Y
BOR 65	24.9	7/24/09	59622	Y
BOR 88	13.4	7/30/09	59891	Y
BOR 800	16	9/25/09	61416	Y
BOR-802	14.3	10/6/09	61792	Y
BOR 804	14.3	11/6/09	62734	Y
BOR-805	12.5	11/18/09	62993	Y
BOR-807	14	11/25/09	63217	Y
BOR-808	15.1	12/7/09	63407	Y
BOR 813	13.7	1/20/10	64130	Y
BOR 815	13.8	1/20/10	64208	Y
BOR-816	9.3	1/26/10	64335	Y
BOR-820	14	3/5/10	65038	Y

Replicate analyses of Single Sample	
Mean	13.876
Median	13.500
Standard Deviation	2.646
Sample Variance	7.002
Kurtosis	13.286
Skewness	2.996
Range	15.600
Minimum	9.300
Maximum	24.900
Sum	346.900
Count	25.000
Largest(2)	16.000
Smallest(2)	11.400

Table Cu-4: Copper NPS and EQIS Duplicates

Sample	Result	Analysis Date	Batch	Split	Result	Analysis Date	RPD
BOR 503	20.3	5/4/09	57431	ES-T11-080530	18.9	6/11/2009	7
BOR 506	21.8	5/6/09	57448	ES-S10-080523	22.2	6/11/2009	2
BOR 504	26.6	5/27/09	57791	ES-M05-080527	27.1	5/28/2009	2
BOR 507	46.5	6/5/09	58138	ES-O09-080610			
BOR 508	28.5	6/19/09	58564	ES-Q11-080606	25	5/6/2009	13
BOR 510	22.2	6/30/09	58730	OU-8HR-080605	22.2	5/3/2009	0
BOR 501	23.7	7/8/09	59166	WS-L04-080508	24.1	7/8/2009	2
BOR 505	22.5	7/24/09	59622	WS-K03-080509	18.8	7/8/2009	18
BOR 502	37.2	7/24/09	59759	WS-F05-080612	31.6	8/18/2009	16
BOR 509	34.8	7/24/09	59759	WS-E06-080613	34.3	7/24/2009	1
BOR 500	55.6	7/30/09	59891	WS-F01-080429	54.6	6/19/2009	2
BOR-809	24.9	12/14/09	63530	ES-K03-091103	28.7	11/25/2009	14
BOR-810	22.1	12/14/09	63530	ES-P07-091022	27.7	11/18/2009	22
BOR-811	23.8	12/14/09	63530	ES-R08-091021	31.1	11/18/2009	27
BOR 814	60.8	1/20/10	64130	ES-J05-091124	45.7	12/14/2009	28
BOR-818	25.7	3/5/10	65038	WS-F05-100111	26.6	1/26/2010	3
BOR-822	25.4	3/5/10	65038	ES-Q08-091228	25.5	1/20/2010	0
DUP-11	42.5	5/3/09	57101	ES-J03-080513	47.2	6/19/2009	10
DUP-17	18.6	5/4/09	57431	ES-F01-080529	18	5/6/2009	3
DUP-15	30.8	5/6/09	57448	ES-J02-080527	38.3	5/27/2009	22
DUP-18	67.1	5/6/09	57448	ES-J04-080530	66.7	5/27/2009	1
DUP-12	27.3	5/27/09	57791	ES-P06-080515	24.1	6/5/2009	12
DUP-16	34	5/27/09	57791	ES-P04-080528	27.8	6/5/2009	20
DUP-19	29.8	5/28/09	57849	ES-K05-080605	31.4	5/28/2009	5
DUP-13	20.6	6/5/09	58138	ES-T08-080522	23.2	6/11/2009	12
DUP-14	39.9	6/11/09	58214	ES-T10-080523	43	6/11/2009	7
DUP-3	27.5	6/19/09	58564	WS-C01-080501	28.1	6/19/2009	2
DUP-4	70.3	6/19/09	58564	WS-G01-080501	60.9	6/30/2009	14
DUP-5	30.6	6/30/09	58730	WS-I01-080501	27.7	6/30/2009	10
DUP-6	38	6/30/09	58730	WS-J01-080505	38	6/30/2009	0
DUP-7	22.3	7/8/09	59166	WS-M01-080505	21.7	7/8/2009	3
DUP-9	24.1	7/8/09	59166	WS-L04-080508	24.1	7/8/2009	0
DUP-1	36.4	7/11/09	59383	WS-E02-080428	46.2	7/24/2009	24
DUP-2	24.4	7/11/09	59383	WS-D02-080429	31.8	7/24/2009	26
DUP-8	24.9	7/24/09	59622	WS-M03-080507	20.2	8/11/2009	21
DUP-10	80.5	7/24/09	59759	WS-K04-080513	46.9	7/8/2009	53
DUP-37	34.5	10/6/09	61792	ES-S17-090910	32.7	9/25/2009	5
DUP-38	30.4	10/29/09	62500	ES-R11-090910	26	9/25/2009	16
DUP-40	16.6	11/18/09	62993	ES-A01-102109			
DUP-39	22.4	12/7/09	63407	ES-C01-090910	25.3	9/25/2009	12
DUP-44	15.4	1/20/10	64130	WS-M04-091218	16.1	1/6/2010	4
DUP-45	41.9	1/20/10	64130	ES-J05-091124	45.7	12/14/2009	9
DUP-46	24	1/20/10	64208	ES-R08-091021	31.1	11/18/2009	26
DUP-47	28.6	1/26/10	64335	ES-K02-091103	29.5	11/25/2009	3
DUP-48	20.3	3/5/10	65038	WS-M03-091217	22.3	1/6/2010	9

Table Cu-4: Copper NPS and EQIS Duplicates (continued)

RPD of Sample Splits	
Mean	11.371
Median	9.390
Standard Deviation	10.838
Sample Variance	117.470
Kurtosis	3.502
Skewness	1.501
Range	52.747
Minimum	0.000
Maximum	52.747
Sum	488.969
Count	43.000
Largest(2)	28.357
Smallest(2)	0.000

Table Cu-5: Copper EQIS CRMs							
Results of Duplicate Analysis of EQIS CRMs							
Sample	Result	Date	Batch	Detect		Average	RPD
ES-Z11-080605A	73.2	5/3/09	57101	Y			
ES-Z11-080605B	71.1	5/3/09	57101	Y		72.15	2.91
ES-Z09-080529A	72.8	5/4/09	57431	Y			
ES-Z09-080529B	73.4	5/4/09	57431	Y		73.10	0.82
ES-Z12-080606A	71.9	5/4/09	57431	Y			
ES-Z12-080606B	73.9	5/4/09	57431	Y		72.90	2.74
ES-Z05-080519A	71	5/6/09	57448	Y			
ES-Z05-080519B	67.2	5/6/09	57448	Y		69.10	5.50
ES-Z06-080520A	67.3	5/6/09	57448	Y			
ES-Z06-080520B	65.3	5/6/09	57448	Y		66.30	3.02
ES-Z07-080522A	74.4	5/27/09	57791	Y			
ES-Z07-080522B	72.5	5/27/09	57791	Y		73.45	2.59
ES-Z13-080610A	73.1	5/28/09	57849	Y			
ES-Z13-080610B	78	5/28/09	57849	Y		75.55	6.49
ES-Z10-080602A	66.9	6/5/09	58138	Y			
ES-Z10-080602B	67.6	6/5/09	58138	Y		67.25	1.04
ES-Z08-080527A	75.1	6/11/09	58214	Y			
ES-Z08-080527B	77.3	6/11/09	58214	Y		76.20	2.89
ES-Z14-080611A	82.8	6/19/09	58564	Y			
ES-Z14-080611B	80.4	6/19/09	58564	Y		81.60	2.94
ES-Z06-080520C	74.3	6/30/09	58730	Y			
ES-Z06-080520D	76.5	6/30/09	58730	Y		75.40	2.92
ES-Z05-080519C	75.3	7/8/09	59166	Y			
ES-Z05-080519D	76.3	7/8/09	59166	Y		75.80	1.32
ES-Z19-080624A	71.7	7/11/09	59383	Y			
ES-Z19-080624B	70.5	7/11/09	59383	Y		71.10	1.69
WS-Z17-080618A	70.8	7/11/09	59383	Y			
WS-Z17-080618B	71.2	7/11/09	59383	Y		71.00	0.56
WS-Z15-080613A	75.4	7/24/09	59622	Y			
WS-Z15-080613B	76	7/24/09	59622	Y		75.70	0.79
WS-Z18-080620A	76.4	7/24/09	59622	Y			
WS-Z18-080620B	76.3	7/24/09	59622	Y		76.35	0.13
WS-Z16-080617A	70.7	7/30/09	59891	Y			
WS-Z16-080617B	72	7/30/09	59891	Y		71.35	1.82
ES-Z22-091021A	71.2	11/18/09	62993	Y			
ES-Z22-091021B	70.7	11/18/09	62993	Y		70.95	0.70
ES-Z23-091022A	72.2	11/18/09	62993	Y			
ES-Z23-091022B	71.3	11/18/09	62993	Y		71.75	1.25
ES-Z24-091103A	82	11/25/09	63217	Y			
ES-Z24-091103B	79.9	11/25/09	63217	Y		80.95	2.59
ES-Z25-091104A	85.1	11/25/09	63217	Y			
ES-Z25-091104B	81.2	11/25/09	63217	Y		83.15	4.69
ES-Z26-091105A	74.4	12/7/09	63407	Y			
ES-Z26-091105B	69.8	12/7/09	63407	Y		72.10	6.38
ES-Z27-091106A	74.7	12/7/09	63407	Y			
ES-Z27-091106B	73.6	12/7/09	63407	Y		74.15	1.48
WS-Z29-091217A	76.2	1/6/10	63972	Y			
WS-Z29-091217B	78.3	1/6/10	63972	Y		77.25	2.72
WS-Z30-091230A	66.7	1/20/10	64130	Y			
WS-Z30-091230B	72.5	1/20/10	64130	Y		69.60	8.33
WS-Z31-100107A	70.6	1/20/10	64208	Y			
WS-Z31-100107B	73.5	1/20/10	64208	Y		72.05	4.02

Table Cu-5: Copper EQIS CRMs

Results of Duplicate Analysis of EQIS CRMs

Sample	Result	Date	Batch	Detect	Average	RPD
WS-Z32-100113A	72.7	1/26/10	64335	Y		
WS-Z32-100113B	73.7	1/26/10	64335	Y	73.20	1.37
ES-Z33-100225A	78.1	3/5/10	65038	Y		
ES-Z33-100225B	76.1	3/5/10	65038	Y	77.10	2.59

Analysis of EQIS CRMs	
Mean	74
Median	73
Standard Deviation	4
Sample Variance	17
Kurtosis	0
Skewness	0
Range	20
Minimum	65
Maximum	85
Sum	4133
Count	56
Largest(2)	83
Smallest(2)	67

RPD of EQIS CRMs	
Mean	3
Median	3
Standard Deviation	2
Sample Variance	4
Kurtosis	1
Skewness	1
Range	8
Minimum	0
Maximum	8
Sum	76
Count	28
Largest(2)	6
Smallest(2)	1

Table Cu-6: Copper Laboratory LCS and MS					
Matrix Spike Recovery %	Batch	Order	LCS Recovery %	Batch	Order
84	7160081	4	95	7160081	4
86	49187	7	91	49187	7
80	49189	8	87	49189	8
94	49537	28	94	49537	28
89	49539	30	95	49539	30
98	54626-627	68	93	54626-627	68
89	54821-822	71	90	54821-822	71
88	54891-892	77	94	54891-892	77
90	54915-916	78	94	54915-916	78
84	57101	113	93	57101	113
87	57225	115	94	57225	115
82	57448	120	94	57448	120
84	57791	140	92	57791	140
85	57849	141	93	57849	141
78	58138	143	88	58138	143
121	58214	155	102	58214	155
91	58564	161	98	58564	161
102	58730	169	98	58730	169
90	59166	173	98	59166	173
88	59383	182	99	59383	182
86	59622	194	101	59622	194
84	59759	197	91	59759	197
78	59891	206	86	59891	206
87	60090	218	89	60090	218
90	60441	222	99	60441	222
102	61416	247	106	61416	247
91	61792	253	103	61792	253
94	62500	260	104	62500	260
86	62756	266	102	62756	266
77	62993	272	93	62993	272
93	63217	282	110	63217	282
86	63407	289	97	63407	289
87	63407	289	102	63530	292
89	63530	292	101	63972	304
89	63972	304	95	64130	322
85	64130	322	96	64208	320
78	64208	320	94	64335	329
79	64335	329	99	64437	342
81	64437	342	96	65038	350
82	65038	350	84	70144	368
80	70144	368			
Average MS Recovery = 88		%	Average LCS Recovery = 96		%
Minimum MS Recovery = 77		%	Minimum LCS Recovery = 84		%

Table Cu-6: Copper Laboratory LCS and MS (Graph)

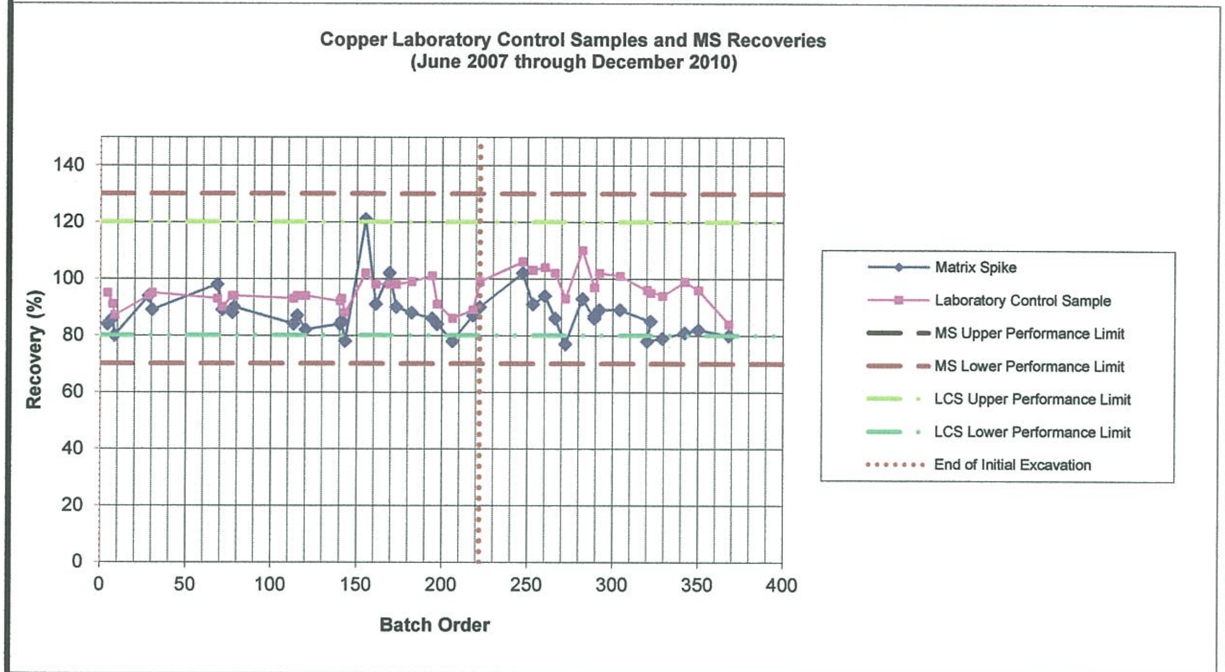


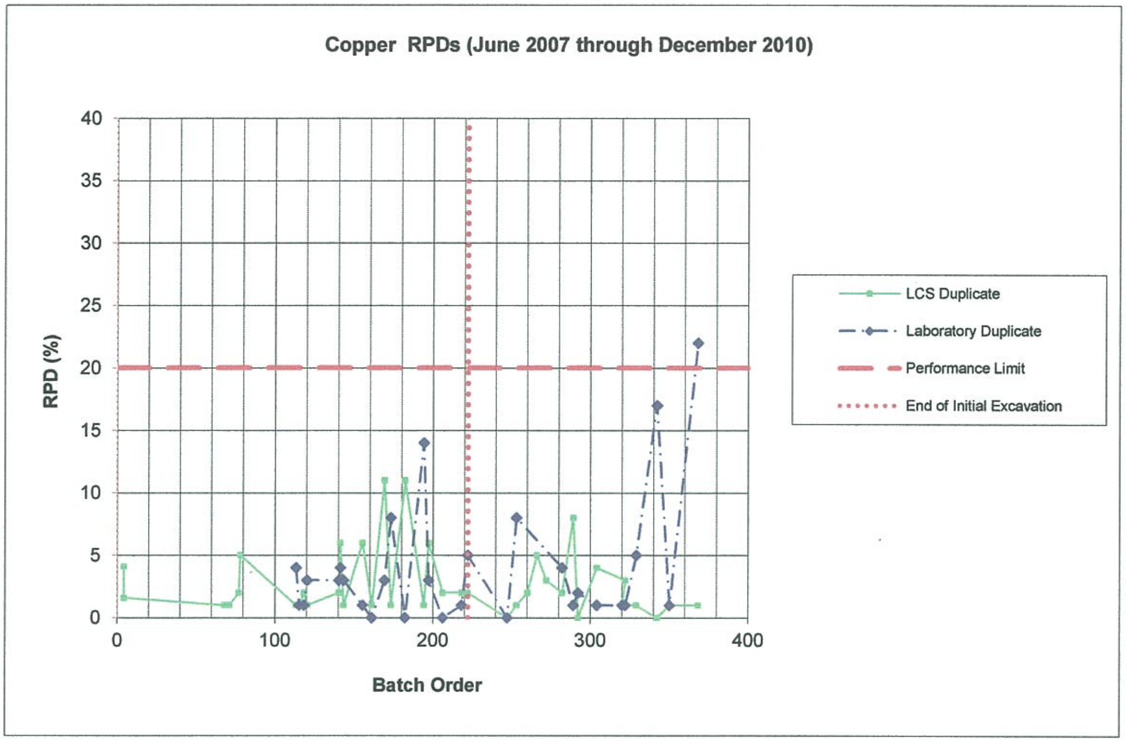
Table Cu-7: Copper - Laboratory Duplicates and LCS Duplicates

Laboratory Duplicate RPD	Batch	Order	LCS Duplicate RPD	Batch	Order
4	57101	113	4.1	7160081	4
1	57225	115	1.6	7160081	4
1	57431	118	1	54626-627	68
3	57448	120	1	54821-822	71
3	57791	140	2	54891-892	77
4	57849	141	5	54915-916	78
3	58138	143	1	57101	113
1	58214	155	1	57225	115
0	58564	161	2	57431	118
3	58730	169	1	57448	120
8	59166	173	2	57791	140
0	59383	182	6	57849	141
14	59622	194	1	58138	143
3	59759	197	6	58214	155
0	59891	206	1	58564	161
1	60090	218	11	58730	169
5	60441	222	1	59166	173
0	61416	247	11	59383	182
8	61792	253	1	59622	194
4	63217	282	6	59759	197
1	63407	289	2	59891	206
2	63530	292	2	60090	218
1	63972	304	2	60441	222
1	64208	320	0	61416	247
1	64130	322	1	61792	253
5	64335	329	2	62500	260
17	64437	342	5	62756	266
1	65038	350	3	62993	272
22	70144	368	2	63217	282
			8	63407	289
			0	63530	292
			4	63972	304
			3	64130	322
			1	64208	320
			1	64335	329
			0	64437	342
			1	65038	350
			1	70144	368

Average Duplicate RPD = 4 % Average LCS RPD = 3 %

Maximum Duplicate RPD = 22 % Maximum LCS RPD = 11 %

Table Cu-7: Copper - Laboratory Duplicates and LCS Duplicates (Graph)



COPPER Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	A1	ES-A01-090910	COPPER	20.9	09/25/09	61416	Y	ES-A01-090910
East Site	A1	ES-A01-102109	COPPER	16.6	11/18/09	62993	Y	DUP-40
East Site	B1	ES-B01-080623	COPPER	22.1	05/03/09	57101	Y	ES-B01-080623
East Site	C1	ES-C01-080624	COPPER	17.4	05/03/09	57101	Y	ES-C01-080624
East Site	C1	ES-C01-090910	COPPER	25.3	09/25/09	61416	Y	ES-C01-090910
East Site	C1	ES-C01-090910	COPPER	22.4	12/07/09	63407	Y	DUP-39
East Site	D1	ES-D01-080624	COPPER	19.4	06/05/09	58138	Y	ES-D01-080624
East Site	E1	ES-E01-090910	COPPER	33.7	09/25/09	61416	Y	ES-E01-090910
East Site	E2	ES-E02-090910	COPPER	29.6	09/25/09	61416	Y	ES-E02-090910
East Site	F1	ES-F01-080529	COPPER	18.6	05/04/09	57431	Y	DUP-17
East Site	F1	ES-F01-080529	COPPER	18	05/06/09	57448	Y	ES-F01-080529
East Site	G1	ES-G01-080529	COPPER	19.2	05/06/09	57448	Y	ES-G01-080529
East Site	G2	ES-G02-080605	COPPER	21.1	05/06/09	57448	Y	ES-G02-080605
East Site	H1	ES-H01-080528	COPPER	46.9	05/06/09	57448	Y	ES-H01-080528
East Site	H1	ES-H01-091105	COPPER	24.5	12/07/09	63407	Y	ES-H01-091105
East Site	H2	ES-H02-080515	COPPER	32.5	05/06/09	57448	Y	ES-H02-080515
East Site	H3	ES-H03-080605	COPPER	27.7	05/27/09	57791	Y	ES-H03-080605
East Site	I1	ES-I01-080529	COPPER	50.9	05/27/09	57791	Y	ES-I01-080529
East Site	I1	ES-I01-091105	COPPER	25.8	12/07/09	63407	Y	ES-I01-091105
East Site	I2	ES-I02-080514	COPPER	28.3	05/27/09	57791	Y	ES-I02-080514
East Site	I3	ES-I03-080513	COPPER	29.4	05/27/09	57791	Y	ES-I03-080513
East Site	I4	ES-I04-080602	COPPER	24.1	05/27/09	57791	Y	ES-I04-080602
East Site	I4	ES-I04-091106	COPPER	25.1	12/07/09	63407	Y	ES-I04-091106
East Site	J1	ES-J01-080529	COPPER	31.3	05/27/09	57791	Y	ES-J01-080529
East Site	J2	ES-J02-080527	COPPER	30.8	05/06/09	57448	Y	DUP-15
East Site	J2	ES-J02-080527	COPPER	38.3	05/27/09	57791	Y	ES-J02-080527
East Site	J2	ES-J02-091105	COPPER	23.7	12/07/09	63407	Y	ES-J02-091105
East Site	J3	ES-J03-080513	COPPER	42.5	05/03/09	57101	Y	DUP-11
East Site	J3	ES-J03-080513	COPPER	47.2	06/19/09	58564	Y	ES-J03-080513
East Site	J3	ES-J03-091103	COPPER	30.6	11/25/09	63217	Y	ES-J03-091103
East Site	J4	ES-J04-080530	COPPER	67.1	05/06/09	57448	Y	DUP-18
East Site	J4	ES-J04-080530	COPPER	66.7	05/27/09	57791	Y	ES-J04-080530
East Site	J4	ES-J04-091103	COPPER	28.7	11/25/09	63217	Y	ES-J04-091103
East Site	J5	ES-J05-080602	COPPER	1030	05/27/09	57791	Y	ES-J05-080602
East Site	J5	ES-J05-091124	COPPER	45.7	12/14/09	63530	Y	ES-J05-091124
East Site	J5	ES-J05-091124	COPPER	41.9	01/20/10	64130	Y	DUP-45
East Site	J5	ES-J05-100112	COPPER	29.5	01/26/10	64335	Y	ES-J05-100112
East Site	K1	ES-K01-080602	COPPER	21.6	05/27/09	57791	Y	ES-K01-080602
East Site	K2	ES-K02-080602	COPPER	37	05/06/09	57448	Y	ES-K02-080602
East Site	K2	ES-K02-091103	COPPER	29.5	11/25/09	63217	Y	ES-K02-091103
East Site	K2	ES-K02-091103	COPPER	28.6	01/26/10	64335	Y	DUP-47
East Site	K3	ES-K03-080514	COPPER	134	05/27/09	57791	Y	ES-K03-080514
East Site	K3	ES-K03-091103	COPPER	28.7	11/25/09	63217	Y	ES-K03-091103
East Site	K4	ES-K04-080527	COPPER	29.4	05/28/09	57849	Y	ES-K04-080527
East Site	K5	ES-K05-080605	COPPER	29.8	05/28/09	57849	Y	DUP-19
East Site	K5	ES-K05-080605	COPPER	31.4	05/28/09	57849	Y	ES-K05-080605
East Site	K7	ES-K07-080611	COPPER	125	05/04/09	57431	Y	ES-K07-080611

COPPER Results from 12/16/2010 database								
Site	quarter_acre _grid	sample_location	chemical_name	result_value	analysis_ date	batch_ id	detect _flag	sample_name
East Site	K7	ES-K07-090924	COPPER	45.8	10/06/09	61792	Y	ES-K07-090924
East Site	K7	ES-K07-091123	COPPER	21.7	12/14/09	63530	Y	ES-K07-091123
East Site	L1	ES-L01-080625	COPPER	24.5	05/28/09	57849	Y	ES-L01-080625
East Site	L2	ES-L02-080625	COPPER	29.1	05/28/09	57849	Y	ES-L02-080625
East Site	L3	ES-L03-080604	COPPER	45.4	05/28/09	57849	Y	ES-L03-080604
East Site	L3	ES-L03-091104	COPPER	28.8	11/25/09	63217	Y	ES-L03-091104
East Site	L4	ES-L04-080604	COPPER	52	06/19/09	58564	Y	ES-L04-080604
East Site	L4	ES-L04-091104	COPPER	30.4	11/25/09	63217	Y	ES-L04-091104
East Site	L5	ES-L05-091104	COPPER	27.2	11/25/09	63217	Y	ES-L05-091104
East Site	L6	ES-L06-091104	COPPER	27.1	11/25/09	63217	Y	ES-L06-091104
East Site	M1	ES-M01-080527	COPPER	26.7	05/28/09	57849	Y	ES-M01-080527
East Site	M2	ES-M02-080519	COPPER	29.3	05/28/09	57849	Y	ES-M02-080519
East Site	M3	ES-M03-091022	COPPER	34.1	11/18/09	62993	Y	ES-M03-091022
East Site	M3	ES-M03-091228	COPPER	27.1	01/20/10	64130	Y	ES-M03-091228
East Site	M4	ES-M04-080515	COPPER	28.7	05/28/09	57849	Y	ES-M04-080515
East Site	M5	ES-M05-080527	COPPER	27.1	05/28/09	57849	Y	ES-M05-080527
East Site	M6	ES-M06-080520	COPPER	45.7	05/28/09	57849	Y	ES-M06-080520
East Site	M6	ES-M06-091105	COPPER	27.4	12/07/09	63407	Y	ES-M06-091105
East Site	M7	ES-M07-091105	COPPER	24.7	12/07/09	63407	Y	ES-M07-091105
East Site	M8	ES-M08-080610	COPPER	355	05/04/09	57431	Y	ES-M08-080610
East Site	M8	ES-M08-090924	COPPER	62.4	10/06/09	61792	Y	ES-M08-090924
East Site	M8	ES-M08-091123	COPPER	33.5	12/14/09	63530	Y	ES-M08-091123
East Site	M9	ES-M09-080611	COPPER	24.3	05/04/09	57431	Y	ES-M09-080611
East Site	N2	ES-N02-080528	COPPER	28.6	05/28/09	57849	Y	ES-N02-080528
East Site	N3	ES-N03-080520	COPPER	31.4	05/28/09	57849	Y	ES-N03-080520
East Site	N4	ES-N04-080519	COPPER	32	05/28/09	57849	Y	ES-N04-080519
East Site	N5	ES-N05-080519	COPPER	37.7	05/28/09	57849	Y	ES-N05-080519
East Site	N5	ES-N05-091105	COPPER	22.1	12/07/09	63407	Y	ES-N05-091105
East Site	N6	ES-N06-080527	COPPER	29.5	06/05/09	58138	Y	ES-N06-080527
East Site	N7	ES-N07-080530	COPPER	78.4	06/05/09	58138	Y	ES-N07-080530
East Site	N7	ES-N07-100225	COPPER	26.4	03/05/10	65038	Y	ES-N07-100225
East Site	N8	ES-N08-080610	COPPER	45	05/04/09	57431	Y	ES-N08-080610
East Site	N8	ES-N08-090924	COPPER	39.5	10/06/09	61792	Y	ES-N08-090924
East Site	N8	ES-N08-091124	COPPER	25.1	12/14/09	63530	Y	ES-N08-091124
East Site	N9	ES-N09-080610	COPPER	40.2	05/04/09	57431	Y	ES-N09-080610
East Site	N9	ES-N09-090924	COPPER	31.9	10/06/09	61792	Y	ES-N09-090924
East Site	N10	ES-N10-080610	COPPER	23.9	05/04/09	57431	Y	ES-N10-080610
East Site	O3	ES-O03-080528	COPPER	21.2	06/05/09	58138	Y	ES-O03-080528
East Site	O4	ES-O04-080515	COPPER	28	06/05/09	58138	Y	ES-O04-080515
East Site	O5	ES-O05-080520	COPPER	30.4	06/05/09	58138	Y	ES-O05-080520
East Site	O6	ES-O06-080529	COPPER	21	06/05/09	58138	Y	ES-O06-080529
East Site	O6	ES-O06-091105	COPPER	28.5	12/07/09	63407	Y	ES-O06-091105
East Site	O7	ES-O07-100225	COPPER	23.5	03/05/10	65038	Y	ES-O07-100225
East Site	O8	ES-O08-080530	COPPER	64.4	07/24/09	59759	Y	ES-O08-080530
East Site	O8	ES-O08-100225	COPPER	27.8	03/05/10	65038	Y	ES-O08-100225
East Site	O9	ES-O09-091014	COPPER	32.8	10/29/09	62500	Y	ES-O09-091014
East Site	O9	ES-O09-092309	COPPER	42.1	10/06/09	61792	Y	ES-O09-092309

COPPER Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	O10	ES-O10-091014	COPPER	77.1	10/29/09	62500	Y	ES-O10-091014
East Site	O10	ES-O10-091123	COPPER	23.7	12/14/09	63530	Y	ES-O10-091123
East Site	O10	ES-O10-092309	COPPER	43.1	10/06/09	61792	Y	ES-O10-092309
East Site	P4	ES-P04-080528	COPPER	34	05/27/09	57791	Y	DUP-16
East Site	P4	ES-P04-080528	COPPER	27.8	06/05/09	58138	Y	ES-P04-080528
East Site	P5	ES-P05-080513	COPPER	24.3	06/05/09	58138	Y	ES-P05-080513
East Site	P6	ES-P06-080515	COPPER	27.3	05/27/09	57791	Y	DUP-12
East Site	P6	ES-P06-080515	COPPER	24.1	06/05/09	58138	Y	ES-P06-080515
East Site	P7	ES-P07-080519	COPPER	28.9	05/28/09	57849	Y	ES-P07-080519
East Site	P7	ES-P07-091022	COPPER	27.7	11/18/09	62993	Y	ES-P07-091022
East Site	P8	ES-P08-080530	COPPER	27.4	06/05/09	58138	Y	ES-P08-080530
East Site	P10	ES-P10-080606	COPPER	43.4	05/04/09	57431	Y	ES-P10-080606
East Site	P10	ES-P10-091014	COPPER	33.4	10/29/09	62500	Y	ES-P10-091014
East Site	P10	ES-P10-092309	COPPER	36.5	10/06/09	61792	Y	ES-P10-092309
East Site	P11	ES-P11-080606	COPPER	50.2	05/04/09	57431	Y	ES-P11-080606
East Site	P11	ES-P11-092309	COPPER	32.9	10/06/09	61792	Y	ES-P11-092309
East Site	Q5	ES-Q05-080520	COPPER	34.6	06/05/09	58138	Y	ES-Q05-080520
East Site	Q5	ES-Q05-091105	COPPER	27.9	12/07/09	63407	Y	ES-Q05-091105
East Site	Q6	ES-Q06-091021	COPPER	33.9	11/18/09	62993	Y	ES-Q06-091021
East Site	Q7	ES-Q07-091021	COPPER	34.1	11/18/09	62993	Y	ES-Q07-091021
East Site	Q7	ES-Q07-091228	COPPER	26	01/20/10	64130	Y	ES-Q07-091228
East Site	Q8	ES-Q08-091021	COPPER	34.4	11/18/09	62993	Y	ES-Q08-091021
East Site	Q8	ES-Q08-091228	COPPER	25.5	01/20/10	64130	Y	ES-Q08-091228
East Site	Q9	ES-Q09-080612	COPPER	27.4	06/05/09	58138	Y	ES-Q09-080612
East Site	Q10	ES-Q10-080606	COPPER	56.8	05/06/09	57448	Y	ES-Q10-080606
East Site	Q10	ES-Q10-091123	COPPER	21.8	12/14/09	63530	Y	ES-Q10-091123
East Site	Q10	ES-Q10-092309	COPPER	3910	10/06/09	61792	Y	ES-Q10-092309
East Site	Q11	ES-Q11-080606	COPPER	25	05/06/09	57448	Y	ES-Q11-080606
East Site	Q17	ES-Q17-080609	COPPER	20.6	05/03/09	57101	Y	ES-Q17-080609
East Site	R5	ES-R05-080521	COPPER	43.5	06/05/09	58138	Y	ES-R05-080521
East Site	R5	ES-R05-091105	COPPER	29.8	12/07/09	63407	Y	ES-R05-091105
East Site	R6	ES-R06-080521	COPPER	28.7	06/19/09	58564	Y	ES-R06-080521
East Site	R7	ES-R07-080521	COPPER	25.7	06/11/09	58214	Y	ES-R07-080521
East Site	R8	ES-R08-091021	COPPER	31.1	11/18/09	62993	Y	ES-R08-091021
East Site	R8	ES-R08-091021	COPPER	24	01/20/10	64208	Y	DUP-46
East Site	R9	ES-R09-080520	COPPER	26.3	06/11/09	58214	Y	ES-R09-080520
East Site	R10	ES-R10-080602	COPPER	20.4	06/11/09	58214	Y	ES-R10-080602
East Site	R11	ES-R11-080605	COPPER	39.1	05/06/09	57448	Y	ES-R11-080605
East Site	R11	ES-R11-090910	COPPER	26	09/25/09	61416	Y	ES-R11-090910
East Site	R11	ES-R11-090910	COPPER	30.4	10/29/09	62500	Y	DUP-38
East Site	R12	ES-R12-080611	COPPER	22.9	05/06/09	57448	Y	ES-R12-080611
East Site	R16	ES-R16-080605	COPPER	19.6	05/03/09	57101	Y	ES-R16-080605
East Site	R17	ES-R17-080606	COPPER	23.5	05/03/09	57101	Y	ES-R17-080606
East Site	S5	ES-S05-080521	COPPER	24.9	06/11/09	58214	Y	ES-S05-080521
East Site	S6	ES-S06-080521	COPPER	24.4	06/11/09	58214	Y	ES-S06-080521
East Site	S7	ES-S07-080521	COPPER	26.9	06/11/09	58214	Y	ES-S07-080521
East Site	S8	ES-S08-091015	COPPER	30.4	10/29/09	62500	Y	ES-S08-091015

COPPER Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	S9	ES-S09-080522	COPPER	24.5	06/11/09	58214	Y	ES-S09-080522
East Site	S10	ES-S10-080523	COPPER	22.2	06/11/09	58214	Y	ES-S10-080523
East Site	S11	ES-S11-080528	COPPER	19.2	06/11/09	58214	Y	ES-S11-080528
East Site	S12	ES-S12-080609	COPPER	25	05/03/09	57101	Y	ES-S12-080609
East Site	S13	ES-S13-080610	COPPER	19.3	05/03/09	57101	Y	ES-S13-080610
East Site	S17	ES-S17-090910	COPPER	32.7	09/25/09	61416	Y	ES-S17-090910
East Site	S17	ES-S17-090910	COPPER	34.5	10/06/09	61792	Y	DUP-37
East Site	S18	ES-S18-080606	COPPER	22.7	05/03/09	57101	Y	ES-S18-080606
East Site	T7	ES-T07-080612	COPPER	22.6	06/11/09	58214	Y	ES-T07-080612
East Site	T8	ES-T08-080522	COPPER	20.6	06/05/09	58138	Y	DUP-13
East Site	T8	ES-T08-080522	COPPER	23.2	06/11/09	58214	Y	ES-T08-080522
East Site	T9	ES-T09-080522	COPPER	28.4	06/11/09	58214	Y	ES-T09-080522
East Site	T10	ES-T10-080523	COPPER	43	06/11/09	58214	Y	ES-T10-080523
East Site	T10	ES-T10-080523	COPPER	39.9	06/11/09	58214	Y	DUP-14
East Site	T10	ES-T10-091015	COPPER	28.9	10/29/09	62500	Y	ES-T10-091015
East Site	T11	ES-T11-080530	COPPER	18.9	06/11/09	58214	Y	ES-T11-080530
East Site	T12	ES-T12-080609	COPPER	18.2	05/03/09	57101	Y	ES-T12-080609
East Site	T13	ES-T13-080609	COPPER	21.7	05/03/09	57101	Y	ES-T13-080609
East Site	T14	ES-T14-080610	COPPER	17.3	05/03/09	57101	Y	ES-T14-080610
East Site	U10	ES-U10-080523	COPPER	23.8	06/11/09	58214	Y	ES-U10-080523
East Site	U11	ES-U11-080602	COPPER	18.9	06/19/09	58564	Y	ES-U11-080602
East Site	U13	ES-U13-080610	COPPER	14.3	05/04/09	57431	Y	ES-U13-080610
East Site	U14	ES-U14-080610	COPPER	22.1	05/04/09	57431	Y	ES-U14-080610
East Site	V11	ES-V11-080529	COPPER	24.1	06/19/09	58564	Y	ES-V11-080529
East Site	V14	ES-V14-080605	COPPER	13.4	05/04/09	57431	Y	ES-V14-080605
East Site	W12	ES-W12-080527	COPPER	15.7	06/22/09	58564	Y	ES-W12-080527
West Site	A4	WS-A04-080626	COPPER	24.8	07/11/09	59383	Y	WS-A04-080626
West Site	B2	WS-B02-100120	COPPER	20.3	02/05/10	64437	Y	WS-B02-100120
West Site	B3	WS-B03-080502	COPPER	33.6	07/11/09	59383	Y	WS-B03-080502
West Site	B4	WS-B04-080626	COPPER	22.8	07/11/09	59383	Y	WS-B04-080626
West Site	B5	WS-B05-080626	COPPER	33	07/24/09	59759	Y	WS-B05-080626
West Site	C1	WS-C01-080501	COPPER	27.5	06/19/09	58564	Y	DUP-3
West Site	C1	WS-C01-080501	COPPER	28.1	06/19/09	58564	Y	WS-C01-080501
West Site	C2	WS-C02-080428	COPPER	24.4	07/24/09	59622	Y	WS-C02-080428
West Site	C2	WS-C02-100120	COPPER	18.1	02/05/10	64437	Y	WS-C02-100120
West Site	C3	WS-C03-080620	COPPER	33.7	07/24/09	59622	Y	WS-C03-080620
West Site	C4	WS-C04-080623	COPPER	30.6	07/24/09	59622	Y	WS-C04-080623
West Site	C5	WS-C05-080620	COPPER	35.4	07/24/09	59759	Y	WS-C05-080620
West Site	C5	WS-C05-100112	COPPER	24.3	01/26/10	64335	Y	WS-C05-100112
West Site	C6	WS-C06-080624	COPPER	37.4	07/24/09	59759	Y	WS-C06-080624
West Site	C6	WS-C06-091013	COPPER	30.7	10/29/09	62500	Y	WS-C06-091013
West Site	D1	WS-D01-080430	COPPER	28.7	06/19/09	58564	Y	WS-D01-080430
West Site	D2	WS-D02-080429	COPPER	24.4	07/11/09	59383	Y	DUP-2
West Site	D2	WS-D02-080429	COPPER	31.8	07/24/09	59622	Y	WS-D02-080429
West Site	D3	WS-D03-080620	COPPER	33.7	07/24/09	59622	Y	WS-D03-080620
West Site	D4	WS-D04-080623	COPPER	35	08/17/09	60441	Y	WS-D04-080623

COPPER Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	D4	WS-D04-091230	COPPER	23.3	01/20/10	64130	Y	WS-D04-091230
West Site	D5	WS-D05-080620	COPPER	40.2	07/24/09	59759	Y	WS-D05-080620
West Site	D5	WS-D05-100111	COPPER	26.6	01/26/10	64335	Y	WS-D05-100111
West Site	D6	WS-D06-080619	COPPER	36.7	07/24/09	59759	Y	WS-D06-080619
West Site	D6	WS-D06-091013	COPPER	31.4	10/29/09	62500	Y	WS-D06-091013
West Site	D7	WS-D07-080619	COPPER	38.2	07/24/09	59759	Y	WS-D07-080619
West Site	D7	WS-D07-091013	COPPER	29.3	10/29/09	62500	Y	WS-D07-091013
West Site	E1	WS-E01-080430	COPPER	26.9	06/19/09	58564	Y	WS-E01-080430
West Site	E2	WS-E02-080428	COPPER	36.4	07/11/09	59383	Y	DUP-1
West Site	E2	WS-E02-080428	COPPER	46.2	07/24/09	59622	Y	WS-E02-080428
West Site	E2	WS-E02-100115	COPPER	32.3	02/05/10	64437	Y	WS-E02-100115
West Site	E3	WS-E03-080619	COPPER	28.1	07/24/09	59622	Y	WS-E03-080619
West Site	E4	WS-E04-080613	COPPER	34.7	07/24/09	59759	Y	WS-E04-080613
West Site	E4	WS-E04-091230	COPPER	21.1	01/20/10	64130	Y	WS-E04-091230
West Site	E5	WS-E05-080613	COPPER	37	07/24/09	59759	Y	WS-E05-080613
West Site	E5	WS-E05-100111	COPPER	27.9	01/26/10	64335	Y	WS-E05-100111
West Site	E6	WS-E06-080613	COPPER	34.3	07/24/09	59759	Y	WS-E06-080613
West Site	E6	WS-E06-091228	COPPER	23.8	01/20/10	64130	Y	WS-E06-091228
West Site	E7	WS-E07-080613	COPPER	39.1	07/24/09	59759	Y	WS-E07-080613
West Site	E7	WS-E07-091228	COPPER	25.4	01/20/10	64130	Y	WS-E07-091228
West Site	E8	WS-E08-091228	COPPER	24.2	01/20/10	64130	Y	WS-E08-091228
West Site	F1	WS-F01-080429	COPPER	54.6	06/19/09	58564	Y	WS-F01-080429
West Site	F1	WS-F01-100115	COPPER	17.6	02/05/10	64437	Y	WS-F01-100115
West Site	F2	WS-F02-080429	COPPER	63.3	07/24/09	59622	Y	WS-F02-080429
West Site	F2	WS-F02-100115	COPPER	27	02/05/10	64437	Y	WS-F02-100115
West Site	F3	WS-F03-080619	COPPER	44.5	07/24/09	59622	Y	WS-F03-080619
West Site	F3	WS-F03-100115	COPPER	20.9	02/05/10	64437	Y	WS-F03-100115
West Site	F4	WS-F04-080616	COPPER	36.4	07/30/09	59891	Y	WS-F04-080616
West Site	F4	WS-F04-091230	COPPER	22.6	01/20/10	64130	Y	WS-F04-091230
West Site	F5	WS-F05-080612	COPPER	31.6	08/18/09	60441	Y	WS-F05-080612
West Site	F5	WS-F05-100111	COPPER	26.6	01/26/10	64335	Y	WS-F05-100111
West Site	F6	WS-F06-080612	COPPER	33.2	07/30/09	59891	Y	WS-F06-080612
West Site	F6	WS-F06-091228	COPPER	24.9	01/20/10	64130	Y	WS-F06-091228
West Site	F7	WS-F07-080617	COPPER	21.9	06/30/09	58730	Y	WS-F07-080617
West Site	F8	WS-F08-080618	COPPER	20.8	06/30/09	58730	Y	WS-F08-080618
West Site	G1	WS-G01-080501	COPPER	70.3	06/19/09	58564	Y	DUP-4
West Site	G1	WS-G01-080501	COPPER	60.9	06/30/09	58730	Y	WS-G01-080501
West Site	G1	WS-G01-100113	COPPER	34.1	01/26/10	64335	Y	WS-G01-100113
West Site	G1	WS-G01-100223	COPPER	29.3	03/05/10	65038	Y	WS-G01-100223
West Site	G2	WS-G02-080618	COPPER	45.6	07/24/09	59622	Y	WS-G02-080618
West Site	G2	WS-G02-100113	COPPER	25.4	01/26/10	64335	Y	WS-G02-100113
West Site	G3	WS-G03-080619	COPPER	29.2	07/24/09	59622	Y	WS-G03-080619
West Site	G4	WS-G04-080616	COPPER	28	07/30/09	59891	Y	WS-G04-080616
West Site	G5	WS-G05-100108	COPPER	25.4	01/20/10	64208	Y	WS-G05-100108

COPPER Results from 12/16/2010 database								
Site	quarter_acre _grid	sample_location	chemical_name	result_value	analysis_ date	batch_ id	detect _flag	sample_name
West Site	G5	WS-G05-100223	COPPER	27.4	03/05/10	65038	Y	WS-G05-100223
West Site	G6	WS-G06-080616	COPPER	23.9	07/30/09	59891	Y	WS-G06-080616
West Site	G6	WS-G06-100107	COPPER	23.7	01/20/10	64208	Y	WS-G06-100107
West Site	G7	WS-G07-080617	COPPER	37.7	06/30/09	58730	Y	WS-G07-080617
West Site	G7	WS-G07-100105	COPPER	21.2	01/20/10	64208	Y	WS-G07-100105
West Site	H1	WS-H01-080501	COPPER	33.1	06/30/09	58730	Y	WS-H01-080501
West Site	H2	WS-H02-080618	COPPER	41.9	07/24/09	59622	Y	WS-H02-080618
West Site	H2	WS-H02-100113	COPPER	27.6	01/26/10	64335	Y	WS-H02-100113
West Site	H3	WS-H03-080619	COPPER	29.7	07/30/09	59891	Y	WS-H03-080619
West Site	H4	WS-H04-080616	COPPER	21.5	07/30/09	59891	Y	WS-H04-080616
West Site	H5	WS-H05-100107	COPPER	25.1	01/20/10	64208	Y	WS-H05-100107
West Site	H6	WS-H06-080617	COPPER	27.4	06/30/09	58730	Y	WS-H06-080617
West Site	I1	WS-I01-080501	COPPER	30.6	06/30/09	58730	Y	DUP-5
West Site	I1	WS-I01-080501	COPPER	27.7	06/30/09	58730	Y	WS-I01-080501
West Site	I1	WS-I01-091013	COPPER	24	10/29/09	62500	Y	WS-I01-091013
West Site	I2	WS-I02-080618	COPPER	39.8	07/24/09	59759	Y	WS-I02-080618
West Site	I2	WS-I02-091014	COPPER	35.7	10/29/09	62500	Y	WS-I02-091014
West Site	I2	WS-I02-100113	COPPER	23.9	01/26/10	64335	Y	WS-I02-100113
West Site	I3	WS-I03-080618	COPPER	25.5	07/30/09	59891	Y	WS-I03-080618
West Site	I3	WS-I03-091013	COPPER	37.7	10/29/09	62500	Y	WS-I03-091013
West Site	I3	WS-I03-100113	COPPER	22.5	01/26/10	64335	Y	WS-I03-100113
West Site	I4	WS-I04-080617	COPPER	29.9	07/30/09	59891	Y	WS-I04-080617
West Site	I4	WS-I04-100106	COPPER	22.6	01/20/10	64208	Y	WS-I04-100106
West Site	I5	WS-I05-080617	COPPER	26.9	06/30/09	58730	Y	WS-I05-080617
West Site	I5	WS-I05-091013	COPPER	30.5	10/29/09	62500	Y	WS-I05-091013
West Site	I5	WS-I05-100107	COPPER	24.4	01/20/10	64208	Y	WS-I05-100107
West Site	I6	WS-I06-080617	COPPER	59.8	06/30/09	58730	Y	WS-I06-080617
West Site	I6	WS-I06-100105	COPPER	21.7	01/20/10	64208	Y	WS-I06-100105
West Site	J1	WS-J01-080505	COPPER	38	06/30/09	58730	Y	WS-J01-080505
West Site	J1	WS-J01-080505	COPPER	38	06/30/09	58730	Y	DUP-6
West Site	J1	WS-J01-091013	COPPER	44	10/29/09	62500	Y	WS-J01-091013
West Site	J1	WS-J01-100112	COPPER	24.6	01/26/10	64335	Y	WS-J01-100112
West Site	J2	WS-J02-080624	COPPER	35.4	06/30/09	58730	Y	WS-J02-080624
West Site	J2	WS-J02-100112	COPPER	24.1	01/26/10	64335	Y	WS-J02-100112
West Site	J3	WS-J03-080620	COPPER	27.4	07/08/09	59166	Y	WS-J03-080620
West Site	J4	WS-J04-080617	COPPER	47.3	07/08/09	59166	Y	WS-J04-080617
West Site	J4	WS-J04-100106	COPPER	24.8	01/20/10	64208	Y	WS-J04-100106
West Site	J5	WS-J05-080618	COPPER	29.7	07/08/09	59166	Y	WS-J05-080618
West Site	K1	WS-K01-080505	COPPER	22.6	07/08/09	59166	Y	WS-K01-080505
West Site	K1	WS-K01-091013	COPPER	30.8	10/29/09	62500	Y	WS-K01-091013
West Site	K2	WS-K02-080509	COPPER	25.8	07/08/09	59166	Y	WS-K02-080509
West Site	K3	WS-K03-080509	COPPER	18.8	07/08/09	59166	Y	WS-K03-080509
West Site	K4	WS-K04-080513	COPPER	46.9	07/08/09	59166	Y	WS-K04-080513
West Site	K4	WS-K04-080513	COPPER	80.5	07/24/09	59759	Y	DUP-10

COPPER Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	K4	WS-K04-100106	COPPER	24.4	01/20/10	64208	Y	WS-K04-100106
West Site	K5	WS-K05-080509	COPPER	17.2	07/08/09	59166	Y	WS-K05-080509
West Site	L1	WS-L01-080505	COPPER	20.8	07/08/09	59166	Y	WS-L01-080505
West Site	L2	WS-L02-080508	COPPER	22	07/08/09	59166	Y	WS-L02-080508
West Site	L3	WS-L03-080508	COPPER	16.9	07/08/09	59166	Y	WS-L03-080508
West Site	L4	WS-L04-080508	COPPER	24.1	07/08/09	59166	Y	WS-L04-080508
West Site	L4	WS-L04-080508	COPPER	24.1	07/08/09	59166	Y	DUP-9
West Site	M1	WS-M01-080505	COPPER	22.3	07/08/09	59166	Y	DUP-7
West Site	M1	WS-M01-080505	COPPER	21.7	07/08/09	59166	Y	WS-M01-080505
West Site	M2	WS-M02-080507	COPPER	22.6	07/24/09	59759	Y	WS-M02-080507
West Site	M3	WS-M03-080507	COPPER	24.9	07/24/09	59622	Y	DUP-8
West Site	M3	WS-M03-080507	COPPER	20.2	08/11/09	60090	Y	WS-M03-080507
West Site	M3	WS-M03-091217	COPPER	22.3	01/06/10	63972	Y	WS-M03-091217
West Site	M3	WS-M03-091217	COPPER	20.3	03/05/10	65038	Y	DUP-48
West Site	M4	WS-M04-080507	COPPER	79.9	08/11/09	60090	Y	WS-M04-080507
West Site	M4	WS-M04-091218	COPPER	16.1	01/06/10	63972	Y	WS-M04-091218
West Site	M4	WS-M04-091218	COPPER	15.4	01/20/10	64130	Y	DUP-44
West Site	N1	WS-N01-080506	COPPER	16.5	08/11/09	60090	Y	WS-N01-080506
West Site	N2	WS-N02-080506	COPPER	17.6	07/11/09	59383	Y	WS-N02-080506
West Site	N3	WS-N03-080507	COPPER	17.4	06/30/09	58730	Y	WS-N03-080507
West Site	O1	WS-O01-080506	COPPER	14.4	07/11/09	59383	Y	WS-O01-080506
West Site	O2	WS-O02-080506	COPPER	13.1	07/11/09	59383	Y	WS-O02-080506

Table Pb-1: Lead Data Quality Summary

Laboratory Performance Criteria	Criteria	Measured		Comment
Minimum LCS Recovery	greater than 80%		81%	
Minimum Matrix Spike Recovery	greater than 70%		77%	
Average LCS Recovery	N/A		90%	
Average Matrix Spike Recovery	N/A		95%	
Maximum LCS RPD	less than 20%		17%	
Maximum Laboratory Duplicate RPD	less than 20%		34%	high
Average LCS RPD	N/A		3%	
Average Laboratory Duplicate RPD	N/A		8%	
Measurement Quality Objectives	**Critera**	**Measured**		
NPS CRM	Recovery greater than 169 r	Minimum Recovery =	169	mg/kg
EQIS CRM	Recovery greater than 166 r	Minimum Recovery =	161	mg/kg
CVS Split Analysis RPD	RPD less than 35%	Maximum RPD =	85	%
CRM Split Analysis RPD	RPD less than 35%	Maximum RPD =	9	%
Overall QC Indicator Measurements	**Criteria**	**Measured**		
NPS CRM "Made to" (Bias measure)	N/A	Average Recovery =	93.38	%
NPS Replicate Test (Precision measure)	N/A	Standard Deviation =	4.48	mg/kg
Data Quality Relative to Remediation Goals				
Tier 1 Remediation Goal	100	mg/kg		
Tier 2 Remediation Goal	none			
QC Derived reliance Level	108.3	mg/kg See Note 1		

Comments: All QC accuracy measurements for lead complied with related laboratory performance criteria and measurement quality objectives. Qualified laboratory precision is indicated by high maximum laboratory duplicate RPD (34%) and high CVS split RPDs. Good precision, however, is indicated by CRM split test results (maximum RPD = 9%) and by a low standard deviation (4.48 mg/kg) for repeated tests on the same sample relative to the expected mean (38.1 mg/kg). As desired, the derived reliance level (108.3 mg/kg) is greater than the remediation goal (100 mg/kg). Based on the foregoing, as well as a review of all QC data, it is concluded that the Lead CVS measurements are of acceptable quality and may be used to determine RG achievement.

Note 1. Derived reliance level is calculated as:
(Tier 1 RG)(1.2)(Average Recovery)-(0.84)(Standard deviation) = (100)(1.2)(.934)-(0.84)(4.48) = 108.3 mg/kg

Table Pb-2: Lead - NPS CRMs				
Blind NPS CRM Results				
Sample	Result	Analysis Date	Batch	Detect
BOR Sample 1-BOR 56	188	5/3/09	57226	Y
BOR SAMPLE 6-BOR 81	203	5/4/09	57400	Y
BOR Sample 4-BOR 82	169	5/8/09	57514	Y
BOR 83	193	5/27/09	57790	Y
BOR Sample 3-BOR 58	183	5/27/09	57790	Y
BOR 84	192	5/27/09	57848	Y
BOR Sample 7-BOR 105	186	5/27/09	57848	Y
BOR 85	180	6/5/09	58137	Y
BOR Sample 8-BOR 106	180	6/5/09	58137	Y
BOR 86	200	6/11/09	58213	Y
BOR 108	191	6/19/09	58563	Y
BOR 87	189	6/19/09	58563	Y
BOR 109	183	6/30/09	58729	Y
BOR 110	180	7/11/09	59382	Y
BOR Sample 9-BOR 107	194	7/24/09	59758	Y
BOR 111	177	7/30/09	59890	Y

CRMs		*Vendor Supplied Information*
Mean	186.8	*"Made to"*
Median	187.0	*200 mg/kg*
Standard Deviation	8.8	
Sample Variance	77.3	*Lower Acceptance Limit*
Kurtosis	0.0	*169 mg/kg*
Skewness	0.0	
Range	34.0	*Upper Acceptance Limit*
Minimum	169.0	*204 mg/kg*
Maximum	203.0	
Sum	2988.0	
Count	16.0	
Largest(2)	200.0	
Smallest(2)	177.0	

Table Pb-3: Lead -NPS Replicate Tests on a Background Sample				
Results of Replicate Analyses of a Single Sample				
Sample	Result	Analysis Date	Batch	Detect
BOR 112	43.1	5/3/09	57226	Y
BOR 59	47.3	5/4/09	57400	Y
BOR 60	38.4	5/8/09	57514	Y
BOR 113	35	5/27/09	57790	Y
BOR 61	41.5	5/27/09	57790	Y
BOR 62	33.3	6/11/09	58213	Y
BOR 63	38.7	6/19/09	58563	Y
BOR 89	35.5	6/19/09	58563	Y
BOR 115	34.3	6/30/09	58729	Y
BOR 64	34	7/8/09	59165	Y
BOR 91	34.8	7/8/09	59165	Y
BOR 116	35.7	7/11/09	59382	Y
BOR 92	34	7/11/09	59382	Y
BOR 65	36.5	7/22/09	59623	Y
BOR 88	34.6	7/30/09	59890	Y
BOR 800	39.4	9/24/09	61415	Y
BOR-802	51	10/6/09	61791	Y
BOR 804	42.1	10/29/09	62501	Y
BOR-805	35.3	11/18/09	62992	Y
BOR-807	38.8	11/25/09	63216	Y
BOR-808	36.2	12/7/09	63406	Y
BOR 813	36.2	1/20/10	64129	Y
BOR 815	35.4	1/20/10	64207	Y
BOR-816	43.9	1/26/10	64334	Y
BOR-820	37.8	3/5/10	65037	Y

Replicate analyses of Single Sample	
Mean	38.112
Median	36.200
Standard Deviation	4.478
Sample Variance	20.052
Kurtosis	1.745
Skewness	1.428
Range	17.700
Minimum	33.300
Maximum	51.000
Sum	952.800
Count	25.000
Largest(2)	47.300
Smallest(2)	34.000

Table Pb-4: Lead NPS and EQIS Duplicates							
Sample	Result	Analysis Date	Batch	Split	Result	Analysis Date	RPD
BOR 503	29.7	5/4/09	57400	ES-T11-080530	12.5	6/11/2009	82
BOR 506	15.4	5/8/09	57514	ES-S10-080523	11.1	6/11/2009	32
BOR 504	14.9	5/27/09	57790	ES-M05-080527	16.9	5/27/2009	13
BOR 507	22	6/5/09	58137	ES-O09-080610			
BOR 508	10.2	6/19/09	58563	ES-Q11-080606	25.4	5/8/2009	85
BOR 510	13.2	6/30/09	58729	OU-8HR-080605	16.3	5/3/2009	21
BOR 501	17.5	7/8/09	59165	WS-L04-080508	17.1	7/8/2009	2
BOR 505	51.7	7/22/09	59623	WS-K03-080509	48.6	7/8/2009	6
BOR 502	107	7/24/09	59758	WS-F05-080612	106	8/17/2009	1
BOR 509	11.3	7/24/09	59758	WS-E06-080613	11.4	7/24/2009	1
BOR 500	32.7	7/30/09	59890	WS-F01-080429	47.2	6/19/2009	36
BOR-809	11.1	12/14/09	63531	ES-K03-091103	12.1	11/25/2009	9
BOR-810	8.5	12/14/09	63531	ES-P07-091022	8.8	11/18/2009	3
BOR-811	9.5	12/14/09	63531	ES-R08-091021	8.7	11/18/2009	9
BOR 814	19.3	1/20/10	64129	ES-J05-091124	19.2	12/14/2009	1
BOR-818	12.2	3/5/10	65037	WS-F05-100111	9	1/26/2010	30
BOR-822	13.9	3/5/10	65037	ES-Q08-091228	10.7	1/20/2010	26
DUP-11	38	5/3/09	57100	ES-J03-080513	26.5	6/19/2009	36
DUP-17	20.3	5/4/09	57400	ES-F01-080529	18.9	5/8/2009	7
DUP-15	13.1	5/8/09	57514	ES-J02-080527	17.3	5/27/2009	28
DUP-18	38.4	5/8/09	57514	ES-J04-080530	25.8	5/27/2009	39
DUP-12	14.7	5/27/09	57790	ES-P06-080515	12.1	6/5/2009	19
DUP-16	19.8	5/27/09	57790	ES-P04-080528	16.5	6/5/2009	18
DUP-19	22.9	5/27/09	57848	ES-K05-080605	18.7	5/27/2009	20
DUP-13	13.5	6/5/09	58137	ES-T08-080522	11.4	6/11/2009	17
DUP-14	17.3	6/11/09	58213	ES-T10-080523	16.2	6/11/2009	7
DUP-3	42.9	6/19/09	58563	WS-C01-080501	44.3	6/19/2009	3
DUP-4	34.9	6/19/09	58563	WS-G01-080501	34.9	6/30/2009	0
DUP-5	38.6	6/30/09	58729	WS-I01-080501	38.9	6/30/2009	1
DUP-6	49.7	6/30/09	58729	WS-J01-080505	46.3	6/30/2009	7
DUP-7	38.2	7/8/09	59165	WS-M01-080505	36.8	7/8/2009	4
DUP-9	17.1	7/8/09	59165	WS-L04-080508	17.1	7/8/2009	0
DUP-1	28.1	7/11/09	59382	WS-E02-080428	30.5	7/22/2009	8
DUP-2	12	7/11/09	59382	WS-D02-080429	11.2	7/22/2009	7
DUP-8	65.7	7/22/09	59623	WS-M03-080507	64.5	8/11/2009	2
DUP-10	32.5	7/24/09	59758	WS-K04-080513	31.1	7/8/2009	4
DUP-37	12.6	10/6/09	61791	ES-S17-090910	17.2	9/24/2009	31
DUP-38	17.4	10/29/09	62501	ES-R11-090910	15.4	9/24/2009	12
DUP-40	22.8	11/18/09	62992	ES-A01-102109			
DUP-39	15.7	12/7/09	63406	ES-C01-090910	22.1	9/24/2009	34
DUP-44	12.6	1/20/10	64129	WS-M04-091218	11.1	1/6/2010	13
DUP-45	18	1/20/10	64129	ES-J05-091124	19.2	12/14/2009	6
DUP-46	9.1	1/20/10	64207	ES-R08-091021	8.7	11/18/2009	4
DUP-47	10.8	1/26/10	64334	ES-K02-091103	11.5	11/25/2009	6
DUP-48	13.5	3/5/10	65037	WS-M03-091217	10.2	1/6/2010	28

Table Pb-4: Lead NPS and EQIS Duplicates (continued)

RPD of Sample Splits	
Mean	16.718
Median	8.621
Standard Deviation	19.058
Sample Variance	363.193
Kurtosis	5.394
Skewness	2.121
Range	85.393
Minimum	0.000
Maximum	85.393
Sum	718.865
Count	43.000
Largest(2)	81.517
Smallest(2)	0.000

Table Pb-5: Lead EQIS CRMs						
Results of Duplicate Analysis of EQIS CRMs						
Sample	Result	Date	Batch	Detect	Average	RPD
ES-Z11-080605A	194	5/3/09	57100	Y		
ES-Z11-080605B	198	5/3/09	57100	Y	196.00	2.04
ES-Z09-080529A	198	5/4/09	57400	Y		
ES-Z09-080529B	202	5/4/09	57400	Y	200.00	2.00
ES-Z12-080606A	206	5/4/09	57400	Y		
ES-Z12-080606B	204	5/4/09	57400	Y	205.00	0.98
ES-Z05-080519A	175	5/8/09	57514	Y		
ES-Z05-080519B	179	5/8/09	57514	Y	177.00	2.26
ES-Z06-080520A	175	5/8/09	57514	Y		
ES-Z06-080520B	176	5/8/09	57514	Y	175.50	0.57
ES-Z07-080522A	182	5/27/09	57790	Y		
ES-Z07-080522B	188	5/27/09	57790	Y	185.00	3.24
ES-Z13-080610A	189	5/27/09	57848	Y		
ES-Z13-080610B	188	5/27/09	57848	Y	188.50	0.53
ES-Z10-080602A	189	6/5/09	58137	Y		
ES-Z10-080602B	179	6/5/09	58137	Y	184.00	5.43
ES-Z08-080527A	183	6/11/09	58213	Y		
ES-Z08-080527B	192	6/11/09	58213	Y	187.50	4.80
ES-Z14-080611A	182	6/19/09	58563	Y		
ES-Z14-080611B	187	6/19/09	58563	Y	184.50	2.71
ES-Z06-080520C	200	6/30/09	58729	Y		
ES-Z06-080520D	197	6/30/09	58729	Y	198.50	1.51
ES-Z05-080519C	184	7/8/09	59165	Y		
ES-Z05-080519D	179	7/8/09	59165	Y	181.50	2.75
ES-Z19-080624A	177	7/11/09	59382	Y		
ES-Z19-080624B	170	7/11/09	59382	Y	173.50	4.03
WS-Z17-080618A	167	7/11/09	59382	Y		
WS-Z17-080618B	169	7/11/09	59382	Y	168.00	1.19
WS-Z15-080613A	196	7/22/09	59623	Y		
WS-Z15-080613B	192	7/22/09	59623	Y	194.00	2.06
WS-Z18-080620A	194	7/22/09	59623	Y		
WS-Z18-080620B	192	7/22/09	59623	Y	193.00	1.04
WS-Z16-080617A	195	7/30/09	59890	Y		
WS-Z16-080617B	*193*	7/30/09	59890	Y	194.00	1.03
ES-Z22-091021A	173	11/18/09	62992	Y		
ES-Z22-091021B	174	11/18/09	62992	Y	173.50	0.58
ES-Z23-091022A	173	11/18/09	62992	Y		
ES-Z23-091022B	172	11/18/09	62992	Y	172.50	0.58
ES-Z24-091103A	193	11/25/09	63216	Y		
ES-Z24-091103B	186	11/25/09	63216	Y	189.50	3.69
ES-Z25-091104A	193	11/25/09	63216	Y		
ES-Z25-091104B	191	11/25/09	63216	Y	192.00	1.04
ES-Z26-091105A	180	12/7/09	63406	Y		
ES-Z26-091105B	177	12/7/09	63406	Y	178.50	1.68
ES-Z27-091106A	176	12/7/09	63406	Y		
ES-Z27-091106B	161	12/7/09	63406	Y	168.50	8.90
WS-Z29-091217A	197	1/6/10	63971	Y		
WS-Z29-091217B	191	1/6/10	63971	Y	194.00	3.09
WS-Z30-091230A	190	1/20/10	64129	Y		
WS-Z30-091230B	175	1/20/10	64129	Y	182.50	8.22

Table Pb-5: Lead EQIS CRMs (continued)

Results of Duplicate Analysis of EQIS CRMs

Sample	Result	Date	Batch	Detect	Average	RPD
WS-Z31-100107A	186	1/20/10	64207	Y		
WS-Z31-100107B	184	1/20/10	64207	Y	185.00	1.08
WS-Z32-100113A	184	1/26/10	64334	Y		
WS-Z32-100113B	175	1/26/10	64334	Y	179.50	5.01
ES-Z33-100225A	204	3/5/10	65037	Y		
ES-Z33-100225B	201	3/5/10	65037	Y	202.50	1.48

Analysis of EQIS CRMs	
Mean	186
Median	187
Standard Deviation	11
Sample Variance	113
Kurtosis	-1
Skewness	0
Range	45
Minimum	161
Maximum	206
Sum	10407
Count	56
Largest(2)	204
Smallest(2)	167

RPD of EQIS CRMs	
Mean	3
Median	2
Standard Deviation	2
Sample Variance	5
Kurtosis	2
Skewness	2
Range	8
Minimum	1
Maximum	9
Sum	74
Count	28
Largest(2)	8
Smallest(2)	1

Table Pb-6: Lead Laboratory MS and LCS

Matrix Spike Recovery %	Batch	Order	LCS Recovery %	Batch	Order
104	7160081	4	94	7160081	4
86	49187	7	99	49187	7
77	49189	8	89	49189	8
95	49537	28	91	49537	28
104	49539	30	96	49539	30
98	54626-627	68	99	54626-627	68
86	54821-822	71	98	54821-822	71
97	54891-892	77	98	54891-892	77
103	54915-916	78	97	54915-916	78
103	57100	114	99	57100	114
80	57226	116	90	57226	116
91	57514	124	92	57514	124
96	57790	138	84	57790	138
99	57848	139	89	57848	139
88	58137	145	86	58137	145
109	58213	154	116	58213	154
126	58563	160	98	58563	160
107	58729	168	90	58729	168
89	59165	174	82	59165	174
88	59382	183	85	59382	183
105	59623	193	82	59623	193
97	59758	198	89	59758	198
81	59890	205	81	59890	205
90	60089	217	82	60089	217
106	60440	221	90	60440	221
97	61415	246	89	61415	246
115	61791	252	87	61791	252
87	62501	261	99	62501	261
94	62755	267	89	62755	267
93	62992	271	82	62992	271
104	63216	283	84	63216	283
99	63406	288	85	63406	288
88	63406	288	86	63531	295
94	63531	295	84	63971	303
91	63971	303	84	64129	321
100	64129	321	82	64207	319
97	64207	319	84	64334	328
97	64334	328	90	64436	341
83	64436	341	95	65037	348
80	65037	348	83	70143	366
77	70143	366			

Average MS Recovery = 95	%	Average LCS Recovery = 90	%
Minimum MS Recovery = 77	%	Minimum LCS Recovery = 81	%

Table Pb-6: Lead Laboratory MS and LCS (Graph)

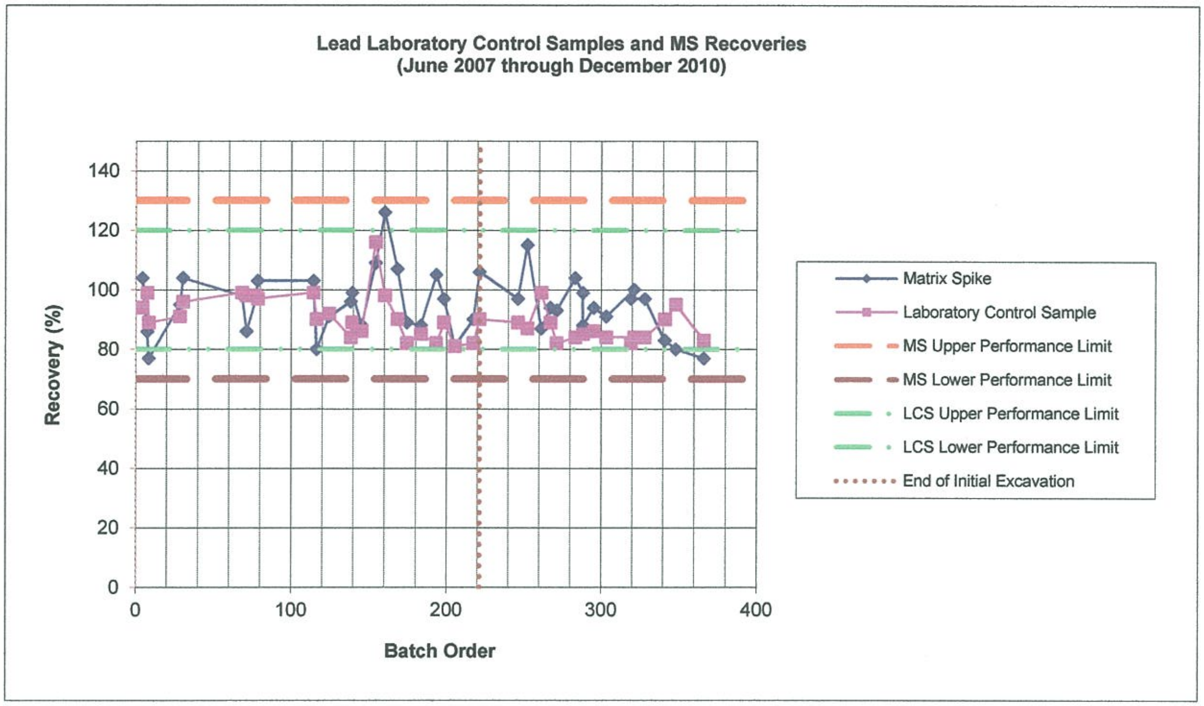


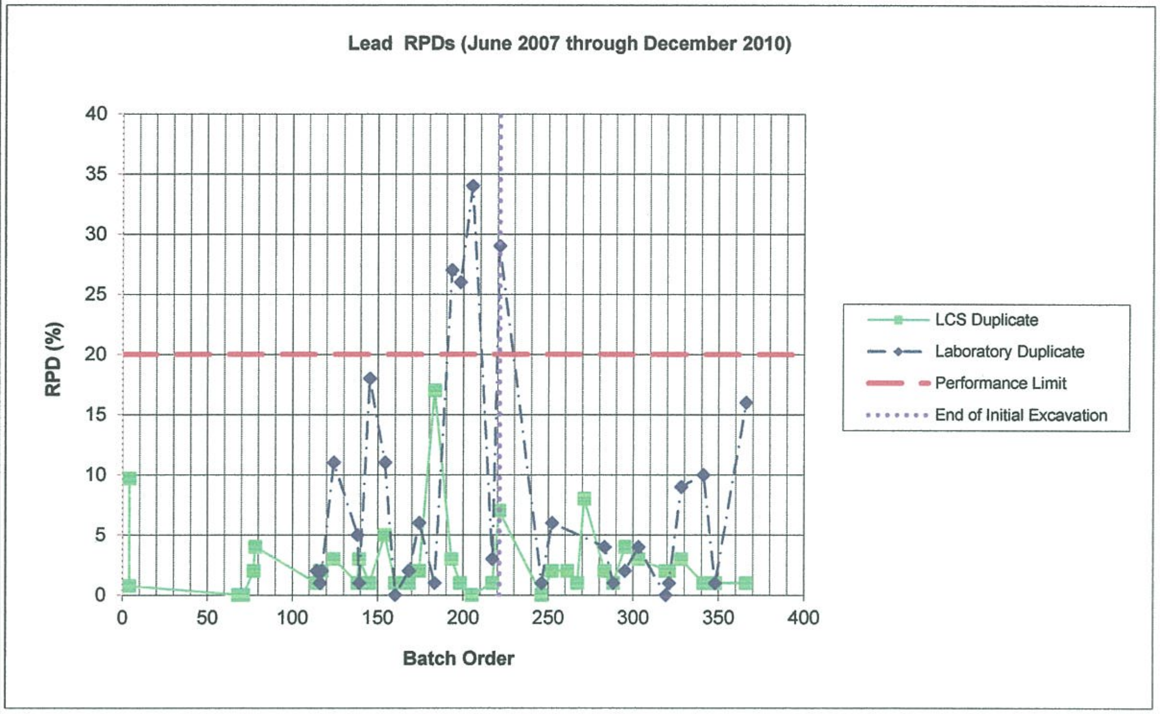
Table Pb-7: Lead - Laboratory Duplicates and LCS Duplicates

Laboratory Duplicate RPD	Batch	Order	LCS Duplicate RPD	Batch	Order
1	57226	116	9.7	7160081	4
2	57100	114	0.75	7160081	4
2	57400	117	0	54626-627	68
11	57514	124	0	54821-822	71
5	57790	138	2	54891-892	77
1	57848	139	4	54915-916	78
18	58137	145	1	57100	114
11	58213	154	2	57226	116
0	58563	160	2	57400	117
2	58729	168	3	57514	124
6	59165	174	1	57790	138
1	59382	183	3	57848	139
27	59623	193	1	58137	145
26	59758	198	5	58213	154
34	59890	205	1	58563	160
3	60089	217	1	58729	168
29	60440	221	2	59165	174
1	61415	246	17	59382	183
6	61791	252	3	59623	193
4	63216	283	1	59758	198
1	63406	288	0	59890	205
2	63531	295	1	60089	217
4	63971	303	7	60440	221
0	64207	319	0	61415	246
1	64129	321	2	61791	252
9	64334	328	2	62501	261
10	64436	341	1	62755	267
1	65037	348	8	62992	271
16	70143	366	2	63216	283
			1	63406	288
			4	63531	295
			3	63971	303
			2	64129	321
			2	64207	319
			3	64334	328
			1	64436	341
			1	65037	348
			1	70143	366

Average Duplicate RPD = 8 % Average LCS RPD = 3 %

Maximum Duplicate RPD = 34 % Maximum LCS RPD = 17 %

Table Pb-7: Lead - Laboratory Duplicates and LCS Duplicates (Graph)



LEAD CVS Results from 12/16/10 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	A1	ES-A01-090910	LEAD	27.6	09/24/09	61415	Y	ES-A01-090910
East Site	A1	ES-A01-102109	LEAD	22.8	11/18/09	62992	Y	DUP-40
East Site	B1	ES-B01-080623	LEAD	24.1	05/03/09	57100	Y	ES-B01-080623
East Site	C1	ES-C01-080624	LEAD	17.9	05/03/09	57100	Y	ES-C01-080624
East Site	C1	ES-C01-090910	LEAD	22.1	09/24/09	61415	Y	ES-C01-090910
East Site	C1	ES-C01-090910	LEAD	15.7	12/07/09	63406	Y	DUP-39
East Site	D1	ES-D01-080624	LEAD	16.2	06/05/09	58137	Y	ES-D01-080624
East Site	E1	ES-E01-090910	LEAD	22.7	09/24/09	61415	Y	ES-E01-090910
East Site	E2	ES-E02-090910	LEAD	18.5	09/24/09	61415	Y	ES-E02-090910
East Site	F1	ES-F01-080529	LEAD	20.3	05/04/09	57400	Y	DUP-17
East Site	F1	ES-F01-080529	LEAD	18.9	05/08/09	57514	Y	ES-F01-080529
East Site	G1	ES-G01-080529	LEAD	16.3	05/08/09	57514	Y	ES-G01-080529
East Site	G2	ES-G02-080605	LEAD	28.7	05/08/09	57514	Y	ES-G02-080605
East Site	H1	ES-H01-080528	LEAD	33.7	05/08/09	57514	Y	ES-H01-080528
East Site	H1	ES-H01-091105	LEAD	11	12/07/09	63406	Y	ES-H01-091105
East Site	H2	ES-H02-080515	LEAD	19.3	05/08/09	57514	Y	ES-H02-080515
East Site	H3	ES-H03-080605	LEAD	23.1	05/26/09	57790	Y	ES-H03-080605
East Site	I1	ES-I01-080529	LEAD	22.9	05/27/09	57790	Y	ES-I01-080529
East Site	I1	ES-I01-091105	LEAD	10.6	12/07/09	63406	Y	ES-I01-091105
East Site	I2	ES-I02-080514	LEAD	15	05/27/09	57790	Y	ES-I02-080514
East Site	I3	ES-I03-080513	LEAD	19	05/27/09	57790	Y	ES-I03-080513
East Site	I4	ES-I04-080602	LEAD	21	05/27/09	57790	Y	ES-I04-080602
East Site	I4	ES-I04-091106	LEAD	10.1	12/07/09	63406	Y	ES-I04-091106
East Site	J1	ES-J01-080529	LEAD	16.4	05/27/09	57790	Y	ES-J01-080529
East Site	J2	ES-J02-080527	LEAD	13.1	05/08/09	57514	Y	DUP-15
East Site	J2	ES-J02-080527	LEAD	17.3	05/27/09	57790	Y	ES-J02-080527
East Site	J2	ES-J02-091105	LEAD	8.8	12/07/09	63406	Y	ES-J02-091105
East Site	J3	ES-J03-080513	LEAD	38	05/03/09	57100	Y	DUP-11
East Site	J3	ES-J03-080513	LEAD	26.5	06/19/09	58563	Y	ES-J03-080513
East Site	J3	ES-J03-091103	LEAD	12.5	11/25/09	63216	Y	ES-J03-091103
East Site	J4	ES-J04-080530	LEAD	38.4	05/08/09	57514	Y	DUP-18
East Site	J4	ES-J04-080530	LEAD	25.8	05/27/09	57790	Y	ES-J04-080530
East Site	J4	ES-J04-091103	LEAD	11.7	11/25/09	63216	Y	ES-J04-091103
East Site	J5	ES-J05-080602	LEAD	284	05/27/09	57790	Y	ES-J05-080602
East Site	J5	ES-J05-091124	LEAD	19.2	12/14/09	63531	Y	ES-J05-091124
East Site	J5	ES-J05-091124	LEAD	18	01/20/10	64129	Y	DUP-45
East Site	J5	ES-J05-100112	LEAD	11.7	01/26/10	64334	Y	ES-J05-100112
East Site	K1	ES-K01-080602	LEAD	16	05/27/09	57790	Y	ES-K01-080602
East Site	K2	ES-K02-080602	LEAD	23	05/08/09	57514	Y	ES-K02-080602
East Site	K2	ES-K02-091103	LEAD	11.5	11/25/09	63216	Y	ES-K02-091103
East Site	K2	ES-K02-091103	LEAD	10.8	01/26/10	64334	Y	DUP-47
East Site	K3	ES-K03-080514	LEAD	27.6	05/27/09	57790	Y	ES-K03-080514
East Site	K3	ES-K03-091103	LEAD	12.1	11/25/09	63216	Y	ES-K03-091103
East Site	K4	ES-K04-080527	LEAD	15.4	05/27/09	57848	Y	ES-K04-080527
East Site	K5	ES-K05-080605	LEAD	18.7	05/27/09	57848	Y	ES-K05-080605

LEAD CVS Results from 12/16/10 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	K5	ES-K05-080605	LEAD	22.9	05/27/09	57848	Y	DUP-19
East Site	K7	ES-K07-080611	LEAD	89.6	05/04/09	57400	Y	ES-K07-080611
East Site	K7	ES-K07-090924	LEAD	76.5	10/06/09	61791	Y	ES-K07-090924
East Site	K7	ES-K07-091123	LEAD	17.7	12/14/09	63531	Y	ES-K07-091123
East Site	L1	ES-L01-080625	LEAD	15.7	05/27/09	57848	Y	ES-L01-080625
East Site	L2	ES-L02-080625	LEAD	15.6	05/27/09	57848	Y	ES-L02-080625
East Site	L3	ES-L03-080604	LEAD	20.2	05/27/09	57848	Y	ES-L03-080604
East Site	L3	ES-L03-091104	LEAD	11.2	11/25/09	63216	Y	ES-L03-091104
East Site	L4	ES-L04-080604	LEAD	21.8	06/19/09	58563	Y	ES-L04-080604
East Site	L4	ES-L04-091104	LEAD	11.4	11/25/09	63216	Y	ES-L04-091104
East Site	L5	ES-L05-091104	LEAD	10.8	11/25/09	63216	Y	ES-L05-091104
East Site	L6	ES-L06-091104	LEAD	11.6	11/25/09	63216	Y	ES-L06-091104
East Site	M1	ES-M01-080527	LEAD	22.4	05/27/09	57848	Y	ES-M01-080527
East Site	M2	ES-M02-080519	LEAD	15.4	05/27/09	57848	Y	ES-M02-080519
East Site	M3	ES-M03-091022	LEAD	10.7	11/18/09	62992	Y	ES-M03-091022
East Site	M3	ES-M03-091228	LEAD	12	01/20/10	64129	Y	ES-M03-091228
East Site	M4	ES-M04-080515	LEAD	15.7	05/27/09	57848	Y	ES-M04-080515
East Site	M5	ES-M05-080527	LEAD	16.9	05/27/09	57848	Y	ES-M05-080527
East Site	M6	ES-M06-080520	LEAD	21.4	05/27/09	57848	Y	ES-M06-080520
East Site	M6	ES-M06-091105	LEAD	9.8	12/07/09	63406	Y	ES-M06-091105
East Site	M7	ES-M07-091105	LEAD	12	12/07/09	63406	Y	ES-M07-091105
East Site	M8	ES-M08-080610	LEAD	99.1	05/04/09	57400	Y	ES-M08-080610
East Site	M8	ES-M08-090924	LEAD	35.6	10/06/09	61791	Y	ES-M08-090924
East Site	M8	ES-M08-091123	LEAD	14.3	12/14/09	63531	Y	ES-M08-091123
East Site	M9	ES-M09-080611	LEAD	30.2	05/04/09	57400	Y	ES-M09-080611
East Site	N2	ES-N02-080528	LEAD	18.4	05/27/09	57848	Y	ES-N02-080528
East Site	N3	ES-N03-080520	LEAD	16.3	05/27/09	57848	Y	ES-N03-080520
East Site	N4	ES-N04-080519	LEAD	20.3	05/27/09	57848	Y	ES-N04-080519
East Site	N5	ES-N05-080519	LEAD	19.2	05/27/09	57848	Y	ES-N05-080519
East Site	N5	ES-N05-091105	LEAD	7.9	12/07/09	63406	Y	ES-N05-091105
East Site	N6	ES-N06-080527	LEAD	20.1	06/05/09	58137	Y	ES-N06-080527
East Site	N7	ES-N07-080530	LEAD	41.6	06/05/09	58137	Y	ES-N07-080530
East Site	N7	ES-N07-100225	LEAD	13.9	03/05/10	65037	Y	ES-N07-100225
East Site	N8	ES-N08-080610	LEAD	18.5	05/04/09	57400	Y	ES-N08-080610
East Site	N8	ES-N08-090924	LEAD	14.7	10/06/09	61791	Y	ES-N08-090924
East Site	N8	ES-N08-091124	LEAD	9.6	12/14/09	63531	Y	ES-N08-091124
East Site	N9	ES-N09-080610	LEAD	33.6	05/04/09	57400	Y	ES-N09-080610
East Site	N9	ES-N09-090924	LEAD	12	10/06/09	61791	Y	ES-N09-090924
East Site	N10	ES-N10-080610	LEAD	33.8	05/04/09	57400	Y	ES-N10-080610
East Site	O3	ES-O03-080528	LEAD	16.8	06/05/09	58137	Y	ES-O03-080528
East Site	O4	ES-O04-080515	LEAD	14.4	06/05/09	58137	Y	ES-O04-080515
East Site	O5	ES-O05-080520	LEAD	16.3	06/05/09	58137	Y	ES-O05-080520
East Site	O6	ES-O06-080529	LEAD	11.1	06/05/09	58137	Y	ES-O06-080529
East Site	O6	ES-O06-091105	LEAD	10.5	12/07/09	63406	Y	ES-O06-091105
East Site	O7	ES-O07-100225	LEAD	11.3	03/05/10	65037	Y	ES-O07-100225

LEAD CVS Results from 12/16/10 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	O8	ES-O08-080530	LEAD	20.8	07/24/09	59758	Y	ES-O08-080530
East Site	O8	ES-O08-100225	LEAD	14.3	03/05/10	65037	Y	ES-O08-100225
East Site	O9	ES-O09-091014	LEAD	19	10/29/09	62501	Y	ES-O09-091014
East Site	O9	ES-O09-092309	LEAD	18.5	10/06/09	61791	Y	ES-O09-092309
East Site	O10	ES-O10-091014	LEAD	59.6	10/29/09	62501	Y	ES-O10-091014
East Site	O10	ES-O10-091123	LEAD	9.1	12/14/09	63531	Y	ES-O10-091123
East Site	O10	ES-O10-092309	LEAD	14.9	10/06/09	61791	Y	ES-O10-092309
East Site	P4	ES-P04-080528	LEAD	19.8	05/27/09	57790	Y	DUP-16
East Site	P4	ES-P04-080528	LEAD	16.5	06/05/09	58137	Y	ES-P04-080528
East Site	P5	ES-P05-080513	LEAD	12.7	06/05/09	58137	Y	ES-P05-080513
East Site	P6	ES-P06-080515	LEAD	14.7	05/27/09	57790	Y	DUP-12
East Site	P6	ES-P06-080515	LEAD	12.1	06/05/09	58137	Y	ES-P06-080515
East Site	P7	ES-P07-080519	LEAD	14.9	05/27/09	57848	Y	ES-P07-080519
East Site	P7	ES-P07-091022	LEAD	8.8	11/18/09	62992	Y	ES-P07-091022
East Site	P8	ES-P08-080530	LEAD	15.8	06/05/09	58137	Y	ES-P08-080530
East Site	P10	ES-P10-080606	LEAD	40.4	05/04/09	57400	Y	ES-P10-080606
East Site	P10	ES-P10-091014	LEAD	16.8	10/29/09	62501	Y	ES-P10-091014
East Site	P10	ES-P10-092309	LEAD	12.6	10/06/09	61791	Y	ES-P10-092309
East Site	P11	ES-P11-080606	LEAD	41.8	05/04/09	57400	Y	ES-P11-080606
East Site	P11	ES-P11-092309	LEAD	11.4	10/06/09	61791	Y	ES-P11-092309
East Site	Q5	ES-Q05-080520	LEAD	19.1	06/05/09	58137	Y	ES-Q05-080520
East Site	Q5	ES-Q05-091105	LEAD	11.1	12/07/09	63406	Y	ES-Q05-091105
East Site	Q6	ES-Q06-091021	LEAD	10.7	11/18/09	62992	Y	ES-Q06-091021
East Site	Q7	ES-Q07-091021	LEAD	10.4	11/18/09	62992	Y	ES-Q07-091021
East Site	Q7	ES-Q07-091228	LEAD	10.6	01/20/10	64129	Y	ES-Q07-091228
East Site	Q8	ES-Q08-091021	LEAD	10.6	11/18/09	62992	Y	ES-Q08-091021
East Site	Q8	ES-Q08-091228	LEAD	10.7	01/20/10	64129	Y	ES-Q08-091228
East Site	Q9	ES-Q09-080612	LEAD	14.7	06/05/09	58137	Y	ES-Q09-080612
East Site	Q10	ES-Q10-080606	LEAD	35.1	05/08/09	57514	Y	ES-Q10-080606
East Site	Q10	ES-Q10-091123	LEAD	11.2	12/14/09	63531	Y	ES-Q10-091123
East Site	Q10	ES-Q10-092309	LEAD	85.3	10/06/09	61791	Y	ES-Q10-092309
East Site	Q11	ES-Q11-080606	LEAD	25.4	05/08/09	57514	Y	ES-Q11-080606
East Site	Q17	ES-Q17-080609	LEAD	34.8	05/03/09	57100	Y	ES-Q17-080609
East Site	R5	ES-R05-080521	LEAD	67.4	06/05/09	58137	Y	ES-R05-080521
East Site	R5	ES-R05-091105	LEAD	12.3	12/07/09	63406	Y	ES-R05-091105
East Site	R6	ES-R06-080521	LEAD	10.6	06/19/09	58563	Y	ES-R06-080521
East Site	R7	ES-R07-080521	LEAD	11.2	06/11/09	58213	Y	ES-R07-080521
East Site	R8	ES-R08-091021	LEAD	8.7	11/18/09	62992	Y	ES-R08-091021
East Site	R8	ES-R08-091021	LEAD	9.1	01/20/10	64207	Y	DUP-46
East Site	R9	ES-R09-080520	LEAD	11.5	06/11/09	58213	Y	ES-R09-080520
East Site	R10	ES-R10-080602	LEAD	11.3	06/11/09	58213	Y	ES-R10-080602
East Site	R11	ES-R11-080605	LEAD	17.9	05/08/09	57514	Y	ES-R11-080605
East Site	R11	ES-R11-090910	LEAD	15.4	09/24/09	61415	Y	ES-R11-090910
East Site	R11	ES-R11-090910	LEAD	17.4	10/29/09	62501	Y	DUP-38
East Site	R12	ES-R12-080611	LEAD	17.3	05/08/09	57514	Y	ES-R12-080611

LEAD CVS Results from 12/16/10 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	R16	ES-R16-080605	LEAD	16.7	05/03/09	57100	Y	ES-R16-080605
East Site	R17	ES-R17-080606	LEAD	15	05/03/09	57100	Y	ES-R17-080606
East Site	S5	ES-S05-080521	LEAD	15.4	06/11/09	58213	Y	ES-S05-080521
East Site	S6	ES-S06-080521	LEAD	12.6	06/11/09	58213	Y	ES-S06-080521
East Site	S7	ES-S07-080521	LEAD	11.9	06/11/09	58213	Y	ES-S07-080521
East Site	S8	ES-S08-091015	LEAD	17.7	10/29/09	62501	Y	ES-S08-091015
East Site	S9	ES-S09-080522	LEAD	11.8	06/11/09	58213	Y	ES-S09-080522
East Site	S10	ES-S10-080523	LEAD	11.1	06/11/09	58213	Y	ES-S10-080523
East Site	S11	ES-S11-080528	LEAD	10.4	06/11/09	58213	Y	ES-S11-080528
East Site	S12	ES-S12-080609	LEAD	14.8	05/03/09	57100	Y	ES-S12-080609
East Site	S13	ES-S13-080610	LEAD	16.2	05/03/09	57100	Y	ES-S13-080610
East Site	S17	ES-S17-090910	LEAD	17.2	09/24/09	61415	Y	ES-S17-090910
East Site	S17	ES-S17-090910	LEAD	12.6	10/06/09	61791	Y	DUP-37
East Site	S18	ES-S18-080606	LEAD	15.1	05/03/09	57100	Y	ES-S18-080606
East Site	T7	ES-T07-080612	LEAD	11.5	06/11/09	58213	Y	ES-T07-080612
East Site	T8	ES-T08-080522	LEAD	13.5	06/05/09	58137	Y	DUP-13
East Site	T8	ES-T08-080522	LEAD	11.4	06/11/09	58213	Y	ES-T08-080522
East Site	T9	ES-T09-080522	LEAD	14.2	06/11/09	58213	Y	ES-T09-080522
East Site	T10	ES-T10-080523	LEAD	17.3	06/11/09	58213	Y	DUP-14
East Site	T10	ES-T10-080523	LEAD	16.2	06/11/09	58213	Y	ES-T10-080523
East Site	T10	ES-T10-091015	LEAD	16.6	10/29/09	62501	Y	ES-T10-091015
East Site	T11	ES-T11-080530	LEAD	12.5	06/11/09	58213	Y	ES-T11-080530
East Site	T12	ES-T12-080609	LEAD	17	05/03/09	57100	Y	ES-T12-080609
East Site	T13	ES-T13-080609	LEAD	16.5	05/03/09	57100	Y	ES-T13-080609
East Site	T14	ES-T14-080610	LEAD	18.8	05/03/09	57100	Y	ES-T14-080610
East Site	U10	ES-U10-080523	LEAD	11.2	06/11/09	58213	Y	ES-U10-080523
East Site	U11	ES-U11-080602	LEAD	14.6	06/19/09	58563	Y	ES-U11-080602
East Site	U13	ES-U13-080610	LEAD	32.3	05/04/09	57400	Y	ES-U13-080610
East Site	U14	ES-U14-080610	LEAD	19.5	05/04/09	57400	Y	ES-U14-080610
East Site	V11	ES-V11-080529	LEAD	13.2	06/19/09	58563	Y	ES-V11-080529
East Site	V14	ES-V14-080605	LEAD	22.4	05/04/09	57400	Y	ES-V14-080605
East Site	W12	ES-W12-080527	LEAD	15.1	06/19/09	58563	Y	ES-W12-080527
West Site	A4	WS-A04-080626	LEAD	17.4	07/11/09	59382	Y	WS-A04-080626
West Site	B2	WS-B02-100120	LEAD	10.6	02/05/10	64436	Y	WS-B02-100120
West Site	B3	WS-B03-080502	LEAD	15.6	07/11/09	59382	Y	WS-B03-080502
West Site	B4	WS-B04-080626	LEAD	11	07/11/09	59382	Y	WS-B04-080626
West Site	B5	WS-B05-080626	LEAD	10.4	07/24/09	59758	Y	WS-B05-080626
West Site	C1	WS-C01-080501	LEAD	42.9	06/19/09	58563	Y	DUP-3
West Site	C1	WS-C01-080501	LEAD	44.3	06/19/09	58563	Y	WS-C01-080501
West Site	C2	WS-C02-080428	LEAD	31.8	07/22/09	59623	Y	WS-C02-080428
West Site	C2	WS-C02-100120	LEAD	10.3	02/05/10	64436	Y	WS-C02-100120
West Site	C3	WS-C03-080620	LEAD	17	07/22/09	59623	Y	WS-C03-080620
West Site	C4	WS-C04-080623	LEAD	18.2	07/22/09	59623	Y	WS-C04-080623
West Site	C5	WS-C05-080620	LEAD	11.7	07/24/09	59758	Y	WS-C05-080620
West Site	C5	WS-C05-100112	LEAD	8.7	01/26/10	64334	Y	WS-C05-100112

LEAD CVS Results from 12/16/10 database								
Site	quarter_acre _grid	sample_location	chemical_name	result_value	analysis_ date	batch_id	detect _flag	sample_name
West Site	C6	WS-C06-080624	LEAD	13.8	07/24/09	59758	Y	WS-C06-080624
West Site	C6	WS-C06-091013	LEAD	19.2	10/29/09	62501	Y	WS-C06-091013
West Site	D1	WS-D01-080430	LEAD	30.8	06/19/09	58563	Y	WS-D01-080430
West Site	D2	WS-D02-080429	LEAD	12	07/11/09	59382	Y	DUP-2
West Site	D2	WS-D02-080429	LEAD	11.2	07/22/09	59623	Y	WS-D02-080429
West Site	D3	WS-D03-080620	LEAD	13	07/22/09	59623	Y	WS-D03-080620
West Site	D4	WS-D04-080623	LEAD	25.4	08/17/09	60440	Y	WS-D04-080623
West Site	D4	WS-D04-091230	LEAD	9.1	01/20/10	64129	Y	WS-D04-091230
West Site	D5	WS-D05-080620	LEAD	13.4	07/24/09	59758	Y	WS-D05-080620
West Site	D5	WS-D05-100111	LEAD	9.7	01/26/10	64334	Y	WS-D05-100111
West Site	D6	WS-D06-080619	LEAD	12.8	07/24/09	59758	Y	WS-D06-080619
West Site	D6	WS-D06-091013	LEAD	20.7	10/29/09	62501	Y	WS-D06-091013
West Site	D7	WS-D07-080619	LEAD	13	07/24/09	59758	Y	WS-D07-080619
West Site	D7	WS-D07-091013	LEAD	18.2	10/29/09	62501	Y	WS-D07-091013
West Site	E1	WS-E01-080430	LEAD	30.9	06/19/09	58563	Y	WS-E01-080430
West Site	E2	WS-E02-080428	LEAD	28.1	07/11/09	59382	Y	DUP-1
West Site	E2	WS-E02-080428	LEAD	30.5	07/22/09	59623	Y	WS-E02-080428
West Site	E2	WS-E02-100115	LEAD	10.6	02/05/10	64436	Y	WS-E02-100115
West Site	E3	WS-E03-080619	LEAD	10.5	07/22/09	59623	Y	WS-E03-080619
West Site	E4	WS-E04-080613	LEAD	20.7	07/24/09	59758	Y	WS-E04-080613
West Site	E4	WS-E04-091230	LEAD	8.7	01/20/10	64129	Y	WS-E04-091230
West Site	E5	WS-E05-080613	LEAD	16.8	07/24/09	59758	Y	WS-E05-080613
West Site	E5	WS-E05-100111	LEAD	10.2	01/26/10	64334	Y	WS-E05-100111
West Site	E6	WS-E06-080613	LEAD	11.4	07/24/09	59758	Y	WS-E06-080613
West Site	E6	WS-E06-091228	LEAD	9.3	01/20/10	64129	Y	WS-E06-091228
West Site	E7	WS-E07-080613	LEAD	12.6	07/24/09	59758	Y	WS-E07-080613
West Site	E7	WS-E07-091228	LEAD	11.8	01/20/10	64129	Y	WS-E07-091228
West Site	E8	WS-E08-091228	LEAD	9.6	01/20/10	64129	Y	WS-E08-091228
West Site	F1	WS-F01-080429	LEAD	47.2	06/19/09	58563	Y	WS-F01-080429
West Site	F1	WS-F01-100115	LEAD	10.7	02/05/10	64436	Y	WS-F01-100115
West Site	F2	WS-F02-080429	LEAD	57.8	07/22/09	59623	Y	WS-F02-080429
West Site	F2	WS-F02-100115	LEAD	11.4	02/05/10	64436	Y	WS-F02-100115
West Site	F3	WS-F03-080619	LEAD	57.5	07/22/09	59623	Y	WS-F03-080619
West Site	F3	WS-F03-100115	LEAD	9.3	02/05/10	64436	Y	WS-F03-100115
West Site	F4	WS-F04-080616	LEAD	50.4	07/30/09	59890	Y	WS-F04-080616
West Site	F4	WS-F04-091230	LEAD	9.3	01/20/10	64129	Y	WS-F04-091230
West Site	F5	WS-F05-080612	LEAD	106	08/17/09	60440	Y	WS-F05-080612
West Site	F5	WS-F05-100111	LEAD	9	01/26/10	64334	Y	WS-F05-100111
West Site	F6	WS-F06-080612	LEAD	12	07/30/09	59890	Y	WS-F06-080612
West Site	F6	WS-F06-091228	LEAD	10.9	01/20/10	64129	Y	WS-F06-091228
West Site	F7	WS-F07-080617	LEAD	22.9	06/30/09	58729	Y	WS-F07-080617
West Site	F8	WS-F08-080618	LEAD	36.7	06/30/09	58729	Y	WS-F08-080618
West Site	G1	WS-G01-080501	LEAD	34.9	06/19/09	58563	Y	DUP-4
West Site	G1	WS-G01-080501	LEAD	34.9	06/30/09	58729	Y	WS-G01-080501
West Site	G1	WS-G01-100113	LEAD	11.4	01/26/10	64334	Y	WS-G01-100113

LEAD CVS Results from 12/16/10 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	G1	WS-G01-100223	LEAD	13.2	03/05/10	65037	Y	WS-G01-100223
West Site	G2	WS-G02-080618	LEAD	60.3	07/22/09	59623	Y	WS-G02-080618
West Site	G2	WS-G02-100113	LEAD	10	01/26/10	64334	Y	WS-G02-100113
West Site	G3	WS-G03-080619	LEAD	12.3	07/22/09	59623	Y	WS-G03-080619
West Site	G4	WS-G04-080616	LEAD	9.8	07/30/09	59890	Y	WS-G04-080616
West Site	G5	WS-G05-100108	LEAD	9.9	01/20/10	64207	Y	WS-G05-100108
West Site	G5	WS-G05-100223	LEAD	13.7	03/05/10	65037	Y	WS-G05-100223
West Site	G6	WS-G06-080616	LEAD	12.3	07/30/09	59890	Y	WS-G06-080616
West Site	G6	WS-G06-100107	LEAD	8.8	01/20/10	64207	Y	WS-G06-100107
West Site	G7	WS-G07-080617	LEAD	61.2	06/30/09	58729	Y	WS-G07-080617
West Site	G7	WS-G07-100105	LEAD	13.1	01/20/10	64207	Y	WS-G07-100105
West Site	H1	WS-H01-080501	LEAD	25.2	06/30/09	58729	Y	WS-H01-080501
West Site	H2	WS-H02-080618	LEAD	26.3	07/22/09	59623	Y	WS-H02-080618
West Site	H2	WS-H02-100113	LEAD	11.1	01/26/10	64334	Y	WS-H02-100113
West Site	H3	WS-H03-080619	LEAD	9.7	07/30/09	59890	Y	WS-H03-080619
West Site	H4	WS-H04-080616	LEAD	9.2	07/30/09	59890	Y	WS-H04-080616
West Site	H5	WS-H05-100107	LEAD	8.8	01/20/10	64207	Y	WS-H05-100107
West Site	H6	WS-H06-080617	LEAD	28.7	06/30/09	58729	Y	WS-H06-080617
West Site	I1	WS-I01-080501	LEAD	38.6	06/30/09	58729	Y	DUP-5
West Site	I1	WS-I01-080501	LEAD	38.9	06/30/09	58729	Y	WS-I01-080501
West Site	I1	WS-I01-091013	LEAD	32.8	10/29/09	62501	Y	WS-I01-091013
West Site	I2	WS-I02-080618	LEAD	36	07/24/09	59758	Y	WS-I02-080618
West Site	I2	WS-I02-091014	LEAD	50.3	10/29/09	62501	Y	WS-I02-091014
West Site	I2	WS-I02-100113	LEAD	10.7	01/26/10	64334	Y	WS-I02-100113
West Site	I3	WS-I03-080618	LEAD	15.5	07/30/09	59890	Y	WS-I03-080618
West Site	I3	WS-I03-091013	LEAD	23.1	10/29/09	62501	Y	WS-I03-091013
West Site	I3	WS-I03-100113	LEAD	8.8	01/26/10	64334	Y	WS-I03-100113
West Site	I4	WS-I04-080617	LEAD	12.5	07/30/09	59890	Y	WS-I04-080617
West Site	I4	WS-I04-100106	LEAD	7.5	01/20/10	64207	Y	WS-I04-100106
West Site	I5	WS-I05-080617	LEAD	20.1	06/30/09	58729	Y	WS-I05-080617
West Site	I5	WS-I05-091013	LEAD	23.2	10/29/09	62501	Y	WS-I05-091013
West Site	I5	WS-I05-100107	LEAD	8.8	01/20/10	64207	Y	WS-I05-100107
West Site	I6	WS-I06-080617	LEAD	50.6	06/30/09	58729	Y	WS-I06-080617
West Site	I6	WS-I06-100105	LEAD	11.7	01/20/10	64207	Y	WS-I06-100105
West Site	J1	WS-J01-080505	LEAD	46.3	06/30/09	58729	Y	WS-J01-080505
West Site	J1	WS-J01-080505	LEAD	49.7	06/30/09	58729	Y	DUP-6
West Site	J1	WS-J01-091013	LEAD	57.1	10/29/09	62501	Y	WS-J01-091013
West Site	J1	WS-J01-100112	LEAD	10.4	01/26/10	64334	Y	WS-J01-100112
West Site	J2	WS-J02-080624	LEAD	35.9	06/30/09	58729	Y	WS-J02-080624
West Site	J2	WS-J02-100112	LEAD	11.8	01/26/10	64334	Y	WS-J02-100112
West Site	J3	WS-J03-080620	LEAD	31.3	07/08/09	59165	Y	WS-J03-080620
West Site	J4	WS-J04-080617	LEAD	63.6	07/08/09	59165	Y	WS-J04-080617
West Site	J4	WS-J04-100106	LEAD	11.1	01/20/10	64207	Y	WS-J04-100106
West Site	J5	WS-J05-080618	LEAD	32.9	07/08/09	59165	Y	WS-J05-080618
West Site	K1	WS-K01-080505	LEAD	44.6	07/08/09	59165	Y	WS-K01-080505

LEAD CVS Results from 12/16/10 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	K1	WS-K01-091013	LEAD	51.1	10/29/09	62501	Y	WS-K01-091013
West Site	K2	WS-K02-080509	LEAD	33.5	07/08/09	59165	Y	WS-K02-080509
West Site	K3	WS-K03-080509	LEAD	48.6	07/08/09	59165	Y	WS-K03-080509
West Site	K4	WS-K04-080513	LEAD	31.1	07/08/09	59165	Y	WS-K04-080513
West Site	K4	WS-K04-080513	LEAD	32.5	07/24/09	59758	Y	DUP-10
West Site	K4	WS-K04-100106	LEAD	11	01/20/10	64207	Y	WS-K04-100106
West Site	K5	WS-K05-080509	LEAD	30	07/08/09	59165	Y	WS-K05-080509
West Site	L1	WS-L01-080505	LEAD	38.6	07/08/09	59165	Y	WS-L01-080505
West Site	L2	WS-L02-080508	LEAD	24.1	07/08/09	59165	Y	WS-L02-080508
West Site	L3	WS-L03-080508	LEAD	49	07/08/09	59165	Y	WS-L03-080508
West Site	L4	WS-L04-080508	LEAD	17.6	07/08/09	59165	Y	WS-L04-080508
West Site	L4	WS-L04-080508	LEAD	17.1	07/08/09	59165	Y	DUP-9
West Site	M1	WS-M01-080505	LEAD	38.2	07/08/09	59165	Y	DUP-7
West Site	M1	WS-M01-080505	LEAD	36.8	07/08/09	59165	Y	WS-M01-080505
West Site	M2	WS-M02-080507	LEAD	62.9	07/24/09	59758	Y	WS-M02-080507
West Site	M3	WS-M03-080507	LEAD	65.7	07/22/09	59623	Y	DUP-8
West Site	M3	WS-M03-080507	LEAD	64.5	08/11/09	60089	Y	WS-M03-080507
West Site	M3	WS-M03-091217	LEAD	10.2	01/06/10	63971	Y	WS-M03-091217
West Site	M3	WS-M03-091217	LEAD	13.5	03/05/10	65037	Y	DUP-48
West Site	M4	WS-M04-080507	LEAD	72.5	08/11/09	60089	Y	WS-M04-080507
West Site	M4	WS-M04-091218	LEAD	11.1	01/06/10	63971	Y	WS-M04-091218
West Site	M4	WS-M04-091218	LEAD	12.6	01/20/10	64129	Y	DUP-44
West Site	N1	WS-N01-080506	LEAD	29.7	08/11/09	60089	Y	WS-N01-080506
West Site	N2	WS-N02-080506	LEAD	35.5	07/11/09	59382	Y	WS-N02-080506
West Site	N3	WS-N03-080507	LEAD	47.6	06/30/09	58729	Y	WS-N03-080507
West Site	O1	WS-O01-080506	LEAD	34.4	07/11/09	59382	Y	WS-O01-080506
West Site	O2	WS-O02-080506	LEAD	43.1	07/11/09	59382	Y	WS-O02-080506

Table Mn-1: Manganese Data Quality Summary			
Laboratory Performance Criteria	Criteria	Measured	Comment
Minimum LCS Recovery	greater than 80%	86%	
Minimum Matrix Spike Recovery	greater than 70%	21%	
Average LCS Recovery	N/A	97%	
Average Matrix Spike Recovery	N/A	91%	
Maximum LCS RPD	less than 20%	9%	
Maximum Laboratory Duplicate RPD	less than 20%	22%	
Average LCS RPD	N/A	3%	
Average Laboratory Duplicate RPD	N/A	4%	
Measurement Quality Objectives	Critera	Measured	
NPS CRM	Recovery greater than 1576 r	Minimum Recovery =	1630 mg/kg
EQIS CRM	See Note 1		
CVS Split Analysis RPD	RPD less than 35%	Maximum RPD =	18 %
CRM Split Analysis RPD	RPD less than 35%	Maximum RPD =	12 %
Overall QC Indicator Measurements	Criteria	Measured	
NPS CRM "Made to" (Bias measure)	N/A	Average Recovery =	92.4 %
NPS Replicate Test (Precision measure)	N/A	Standard Deviation =	83.5 mg/kg
Data Quality Relative to Remediation Goals			
Tier 1 Remediation Goal		3650 mg/kg	
Tier 2 Remediation Goal		none	
QC Derived reliance Level		3978 mg/kg See Note 2	

Comments: There was a low matrix spike recovery associated with laboratory batch 54821-822, but this batch did not include CVS samples, only background samples used to verify comparability of CVS data with analogous RI measurements. The second and third lowest matrix spike recoveries for manganese (both 67%) are also lower than laboratory performance criteria (70%). This suggests a potential bias favoring low concentration measurements due to matrix interference. The occurrence of a maximum laboratory duplicate RPD (22%) that exceeds laboratory performance criteria (20%) suggests possible occasional instrument or laboratory procedural problem. The CVS and CRM split maximum RPDs (18% and 12% respectively) are favorably low; the NPS replicate-test standard deviation (83.5 mg/kg) is low relative to the mean concentration (787 mg/kg); and the average BOR CRM recovery (92.4%) is favorably high. Favorable QC values result in a QC derived reliance level that is greater than the RG as desired. Based on the foregoing, as well as a review of all QC data, it is concluded that the manganese CVS measurements are of acceptable quality and may be used to determine RG achievement.

Note 1: The QAPP required CRMs have only 4 analytes from each analyte group. Manganese is not one of these analytes.

Note 2. Derived reliance level is calculated as: (Tier 1 RG)(1.2)(Average Recovery)-(0.84)(Standard deviation) = (3650)(1.2)(.924)-(0.84)(83.5) = 3978 mg/kg

Table Mn-2: Manganese - NPS CRMs

Blind NPS CRM Results

Sample	Result	Analysis Date	Batch	Detect
BOR Sample 1-BOR 56	1770	5/1/09	57223	Y
BOR SAMPLE 6-BOR 81	1690	5/1/09	57284	Y
BOR Sample 4-BOR 82	1660	5/11/09	57543	Y
BOR 83	1760	5/24/09	57792	Y
BOR Sample 3-BOR 58	1700	5/24/09	57792	Y
BOR 84	1640	5/28/09	57847	Y
BOR Sample 7-BOR 105	1670	5/28/09	57847	Y
BOR 85	1890	6/9/09	58135	Y
BOR Sample 8-BOR 106	1890	6/9/09	58135	Y
BOR 86	1630	6/10/09	58212	Y
BOR 108	1780	6/20/09	58565	Y
BOR 87	1890	6/20/09	58565	Y
BOR 109	1830	6/29/09	58728	Y
BOR 110	1730	7/13/09	59381	Y
BOR Sample 9-BOR 107	1840	7/27/09	59757	Y
BOR 111	1730	7/29/09	59889	Y

CRMs		Vendor Supplied Information
Mean	1756.3	*"Made to"*
Median	1745.0	*1900 mg/kg*
Standard Deviation	90.2	
Sample Variance	8131.7	*Upper Acceptance Limit*
Kurtosis	-1.2	*1937 mg/kg*
Skewness	0.3	
Range	260.0	*Lower Acceptance Limit*
Minimum	1630.0	*1576 mg/kg*
Maximum	1890.0	
Sum	28100.0	
Count	16.0	
Largest(2)	1890.0	
Smallest(2)	1640.0	

Table Mn-3: Manganese NPS Replicate Tests on a Background Sample

Results of Replicate Analyses of a Single Sample

Sample	Result	Analysis Date	Batch	Detect
BOR 112	767	5/1/09	57223	Y
BOR 59	618	5/1/09	57284	Y
BOR 60	708	5/11/09	57543	Y
BOR 113	762	5/24/09	57792	Y
BOR 61	755	5/24/09	57792	Y
BOR 62	762	6/10/09	58212	Y
BOR 63	733	6/20/09	58565	Y
BOR 89	604	6/20/09	58565	Y
BOR 115	876	6/29/09	58728	Y
BOR 64	753	7/8/09	59163	Y
BOR 91	844	7/8/09	59163	Y
BOR 116	786	7/13/09	59381	Y
BOR 92	804	7/13/09	59381	Y
BOR 65	792	7/20/09	59621	Y
BOR 88	742	7/29/09	59889	Y
BOR-802	953	10/6/09	61790	Y
BOR 804	742	10/28/09	62499	Y
BOR-805	808	11/5/09	62754	Y
BOR 800	902	11/9/09	61414	Y
BOR-807	813	11/25/09	63215	Y
BOR-808	728	12/8/09	63405	Y
BOR 813	904	1/19/10	64128	Y
BOR 815	768	1/19/10	64206	Y
BOR-816	882	1/27/10	64333	Y
BOR-820	879	3/5/10	65036	Y

Replicate analyses of Single Sample	
Mean	787.400
Median	768.000
Standard Deviation	83.538
Sample Variance	6978.583
Kurtosis	0.278
Skewness	-0.160
Range	349.000
Minimum	604.000
Maximum	953.000
Sum	19685.000
Count	25.000
Largest(2)	904.000
Smallest(2)	618.000

Table Mn-4: Manganese NPS and EQIS Duplicates							
Sample	Result	Analysis Date	Batch	Split	Result	Analysis Date	RPD
BOR 503	778	5/1/09	57284	ES-T11-080530	662	6/10/2009	16
BOR 506	309	5/11/09	57543	ES-S10-080523	348	6/10/2009	12
BOR 504	420	5/24/09	57792	ES-M05-080527	490	5/28/2009	15
BOR 507	334	6/9/09	58135	ES-O09-080610			
BOR 508	510	6/20/09	58565	ES-Q11-080606	501	5/11/2009	2
BOR 510	344	6/29/09	58728	OU-8HR-080605	308	5/1/2009	11
BOR 501	356	7/8/09	59163	WS-L04-080508	376	7/8/2009	5
BOR 505	329	7/20/09	59621	WS-K03-080509	331	7/8/2009	1
BOR 502	278	7/27/09	59757	WS-F05-080612	258	8/18/2009	7
BOR 509	466	7/27/09	59757	WS-E06-080613	472	7/27/2009	1
BOR 500	495	7/29/09	59889	WS-F01-080429	463	6/20/2009	7
BOR-809	299	12/15/09	63529	ES-K03-091103	343	11/25/2009	14
BOR-810	387	12/15/09	63529	ES-P07-091022	386	11/5/2009	0
BOR-811	486	12/15/09	63529	ES-R08-091021	487	11/5/2009	0
BOR 814	403	1/19/10	64128	ES-J05-091124	393	12/15/2009	3
BOR-818	483	3/5/10	65036	WS-F05-100111	440	1/27/2010	9
BOR-822	335	3/5/10	65036	ES-Q08-091228	307	1/19/2010	9
DUP-11	270	5/1/09	57147	ES-J03-080513	287	6/20/2009	6
DUP-17	753	5/1/09	57284	ES-F01-080529	774	5/11/2009	3
DUP-15	488	5/11/09	57543	ES-J02-080527	491	5/24/2009	1
DUP-18	303	5/11/09	57543	ES-J04-080530	293	5/24/2009	3
DUP-12	443	5/24/09	57792	ES-P06-080515	442	6/9/2009	0
DUP-16	278	5/24/09	57792	ES-P04-080528	290	6/9/2009	4
DUP-19	283	5/28/09	57847	ES-K05-080605	283	5/28/2009	0
DUP-13	308	6/9/09	58135	ES-T08-080522	320	6/10/2009	4
DUP-14	417	6/10/09	58212	ES-T10-080523	419	6/10/2009	0
DUP-3	403	6/20/09	58565	WS-C01-080501	431	6/20/2009	7
DUP-4	735	6/20/09	58565	WS-G01-080501	762	6/29/2009	4
DUP-5	688	6/29/09	58728	WS-I01-080501	699	6/29/2009	2
DUP-6	1020	6/29/09	58728	WS-J01-080505	999	6/29/2009	2
DUP-7	577	7/8/09	59163	WS-M01-080505	575	7/8/2009	0
DUP-9	369	7/8/09	59163	WS-L04-080508	376	7/8/2009	2
DUP-1	389	7/13/09	59381	WS-E02-080428	388	7/20/2009	0
DUP-2	438	7/13/09	59381	WS-D02-080429	448	7/20/2009	2
DUP-8	251	7/20/09	59621	WS-M03-080507	251	8/5/2009	0
DUP-10	308	7/27/09	59757	WS-K04-080513	304	7/8/2009	1
DUP-37	375	10/5/09	61790	ES-S17-090910	358	9/23/2009	5
DUP-38	507	10/28/09	62499	ES-R11-090910	441	11/9/2009	14
DUP-39	513	10/28/09	62499	ES-C01-090910	540	11/9/2009	5
DUP-40	918	11/5/09	62754	ES-A01-102109			
DUP-44	210	1/19/10	64128	WS-M04-091218	208	1/5/2010	1
DUP-45	403	1/19/10	64128	ES-J05-091124	393	12/15/2009	3
DUP-46	408	1/19/10	64206	ES-R08-091021	487	11/5/2009	18
DUP-47	489	1/27/10	64333	ES-K02-091103	495	11/25/2009	1
DUP-48	262	3/5/10	65036	WS-M03-091217	275	1/5/2010	5

Table Mn-4: Manganese NPS and EQIS Duplicates (continued)

RPD of Sample Splits	
Mean	4.765
Median	2.750
Standard Deviation	4.941
Sample Variance	24.418
Kurtosis	0.472
Skewness	1.210
Range	17.654
Minimum	0.000
Maximum	17.654
Sum	204.895
Count	43.000
Largest(2)	16.111
Smallest(2)	0.000

Table Mn-5: Manganese EQIS CRMs						
Results of Duplicate Analysis of EQIS CRMs						
Sample	Result	Date	Batch	Detect	Average	RPD
ES-Z11-080605A	6990	5/1/09	57147	Y		
ES-Z11-080605B	6610	5/1/09	57147	Y	6800	6
ES-Z09-080529A	6300	5/1/09	57284	Y		
ES-Z09-080529B	6310	5/1/09	57284	Y	6305	0
ES-Z12-080606A	6450	5/1/09	57284	Y		
ES-Z12-080606B	6210	5/1/09	57284	Y	6330	4
ES-Z05-080519A	6740	5/11/09	57543	Y		
ES-Z05-080519B	6480	5/11/09	57543	Y	6610	4
ES-Z06-080520A	6490	5/11/09	57543	Y		
ES-Z06-080520B	6670	5/11/09	57543	Y	6580	3
ES-Z07-080522A	6630	5/24/09	57792	Y		
ES-Z07-080522B	6610	5/24/09	57792	Y	6620	0
ES-Z13-080610A	6430	5/28/09	57847	Y		
ES-Z13-080610B	6440	5/28/09	57847	Y	6435	0
ES-Z10-080602A	6780	6/9/09	58135	Y		
ES-Z10-080602B	7020	6/9/09	58135	Y	6900	3
ES-Z08-080527A	6190	6/10/09	58212	Y		
ES-Z08-080527B	6730	6/10/09	58212	Y	6460	8
ES-Z14-080611A	7420	6/20/09	58565	Y		
ES-Z14-080611B	7320	6/20/09	58565	Y	7370	1
ES-Z06-080520C	7360	6/29/09	58728	Y		
ES-Z06-080520D	8320	6/29/09	58728	Y	7840	12
ES-Z05-080519C	7440	7/8/09	59163	Y		
ES-Z05-080519D	7140	7/8/09	59163	Y	7290	4
ES-Z19-080624A	7100	7/13/09	59381	Y		
ES-Z19-080624B	6980	7/13/09	59381	Y	7040	2
WS-Z17-080618A	7080	7/13/09	59381	Y		
WS-Z17-080618B	7110	7/13/09	59381	Y	7095	0
WS-Z15-080613A	7260	7/20/09	59621	Y		
WS-Z15-080613B	6880	7/20/09	59621	Y	7070	5
WS-Z18-080620A	6590	7/20/09	59621	Y		
WS-Z18-080620B	7150	7/20/09	59621	Y	6870	8
WS-Z16-080617A	6630	7/29/09	59889	Y		
WS-Z16-080617B	6980	7/29/09	59889	Y	6805	5
ES-Z22-091021A	214	11/5/09	62754	Y		
ES-Z22-091021B	196	11/5/09	62754	Y	205	9
ES-Z23-091022A	6980	11/5/09	62754	Y		
ES-Z23-091022B	6960	11/5/09	62754	Y	6970	0
ES-Z24-091103A	7130	11/25/09	63215	Y		
ES-Z24-091103B	7110	11/25/09	63215	Y	7120	0
ES-Z25-091104A	6990	11/25/09	63215	Y		
ES-Z25-091104B	7350	11/25/09	63215	Y	7170	5
ES-Z26-091105A	6820	12/8/09	63405	Y		
ES-Z26-091105B	6910	12/8/09	63405	Y	6865	1
ES-Z27-091106A	6660	12/8/09	63405	Y		
ES-Z27-091106B	6400	12/8/09	63405	Y	6530	4
WS-Z29-091217A	6920	1/5/10	63970	Y		
WS-Z29-091217B	6850	1/5/10	63970	Y	6885	1
WS-Z30-091230A	6190	1/19/10	64128	Y		
WS-Z30-091230B	6570	1/19/10	64128	Y	6380	6
WS-Z31-100107A	6800	1/19/10	64206	Y		
WS-Z31-100107B	6690	1/19/10	64206	Y	6745	2

Table Mn-5: Manganese EQIS CRMs (continued)

Results of Duplicate Analysis of EQIS CRMs

Sample	Result	Date	Batch	Detect	Average	RPD
WS-Z32-100113A	6980	1/27/10	64333	Y		
WS-Z32-100113B	7080	1/27/10	64333	Y	7030	1
ES-Z33-100225A	6670	3/5/10	65036	Y		
ES-Z33-100225B	7030	3/5/10	65036	Y	6850	5

Analysis of EQIS CRMs	
Mean	6613
Median	6835
Standard Deviation	1300
Sample Variance	1691250
Kurtosis	21
Skewness	-4
Range	8124
Minimum	196
Maximum	8320
Sum	370340
Count	56
Largest(2)	7440
Smallest(2)	214

RPD of EQIS CRMs	
Mean	4
Median	4
Standard Deviation	3
Sample Variance	10
Kurtosis	1
Skewness	1
Range	12
Minimum	0
Maximum	12
Sum	102
Count	28
Largest(2)	9
Smallest(2)	0

Table Mn-6: Manganese Laboratory MS and LCS

Matrix Spike Recovery %	Batch	Order	LCS Recovery %	Batch	Order
100	7160081	4	96	7160081	4
67	49187	7	98	49187	7
67	49189	8	94	49189	8
109	49537	28	106	49537	28
103	49539	30	103	49539	30
86	54626-627	68	96	54626-627	68
21	54821-822	71	97	54821-822	71
93	54891-892	77	95	54891-892	77
93	54915-916	78	96	54915-916	78
94	57147	109	94	57147	109
93	57223	112	94	57223	112
99	57543	127	100	57543	127
94	57792	136	98	57792	136
88	57847	137	92	57847	137
87	58135	149	94	58135	149
122	58212	150	116	58212	150
105	58565	162	108	58565	162
78	58728	166	87	58728	166
82	59163	172	90	59163	172
96	59381	186	96	59381	186
96	59621	190	94	59621	190
90	59757	199	93	59757	199
91	59889	204	92	59889	204
104	60088	213	101	60088	213
95	60439	224	99	60439	224
96	61414	244	92	61414	244
100	61790	250	102	61790	250
97	62499	259	106	62499	259
89	62754	265	100	62754	265
98	63215	281	100	63215	281
95	63405	291	94	63405	291
97	63529	294	95	63529	294
94	63970	301	92	63970	301
90	64128	313	92	64128	313
87	64206	314	94	64206	314
90	64333	330	86	64333	330
95	64435	339	94	64435	339
96	65036	349	99	65036	349
85	70142	367	91	70142	367

Average MS Recovery = 91 % Average LCS Recovery = 97 %

Minimum MS Recovery = 21 % Minimum LCS Recovery = 86 %

Table Mn-6: Manganese Laboratory MS and LCS (Graph)

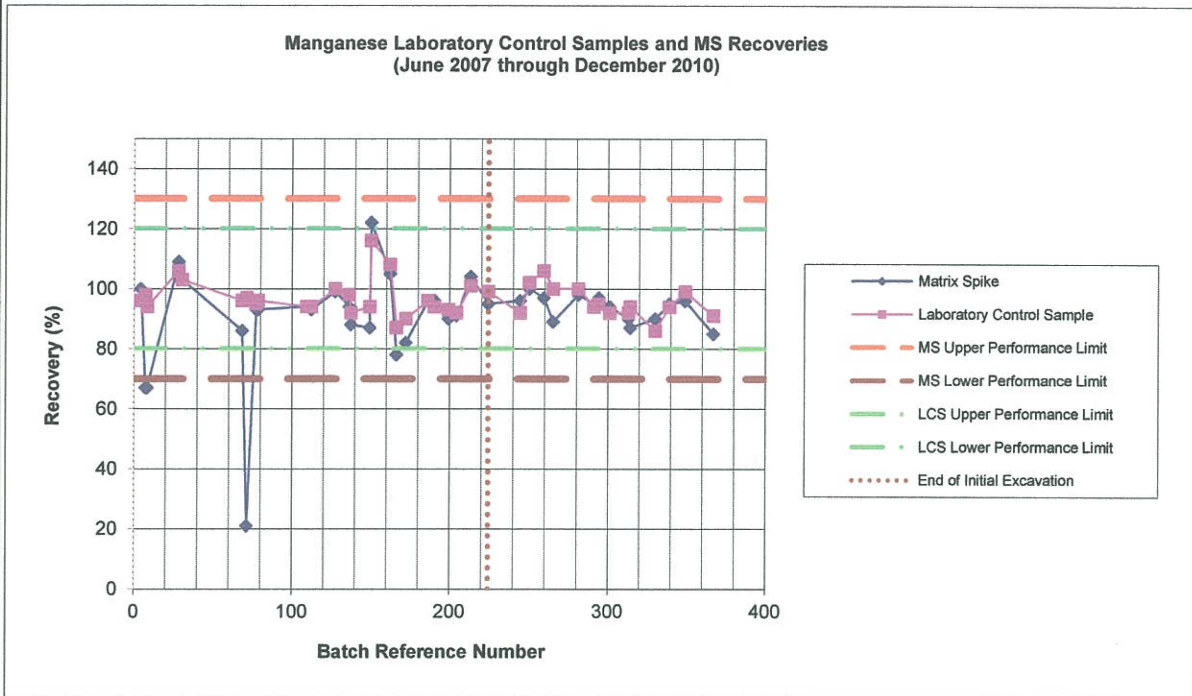
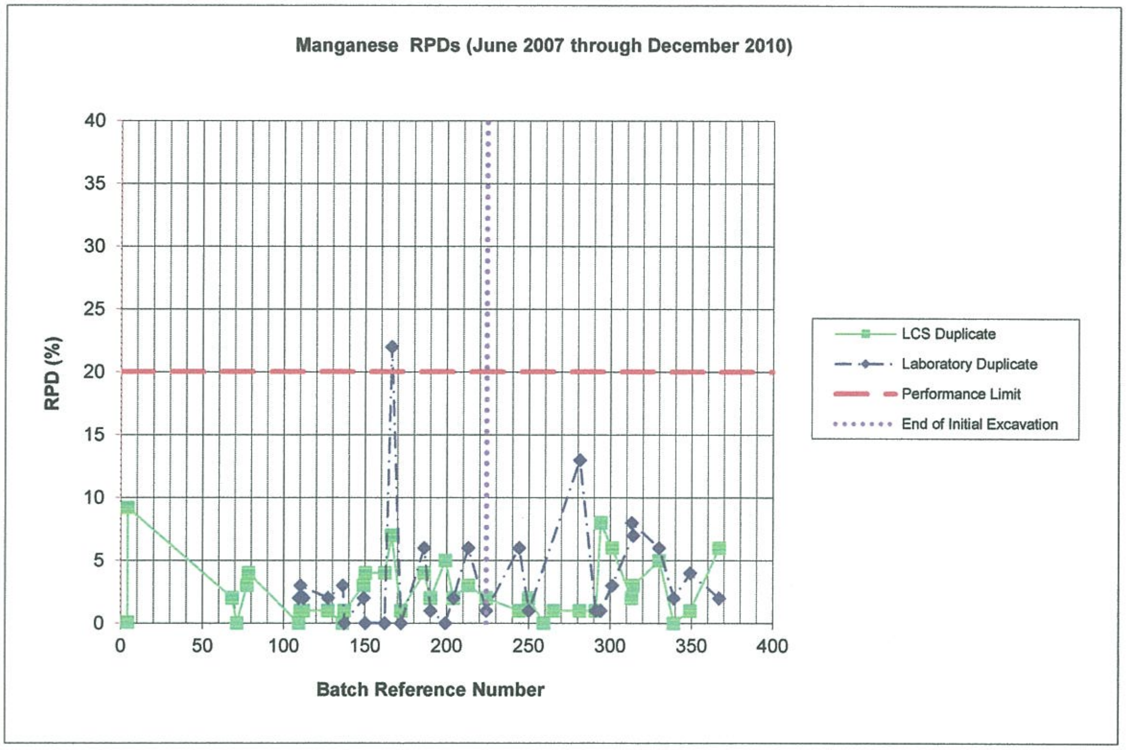


Table Mn-7: Manganese - Laboratory Duplicates and LCS Duplicates

Laboratory Duplicate RPD	Batch	Order	LCS Duplicate RPD	Batch	Order
2	57147	109	0.08	7160081	4
2	57223	112	9.2	7160081	4
3	57284	110	2	54626-627	68
2	57543	127	0	54821-822	71
3	57792	136	3	54891-892	77
0	57847	137	4	54915-916	78
2	58135	149	0	57147	109
0	58212	150	1	57223	112
0	58565	162	1	57284	110
22	58728	166	1	57543	127
0	59163	172	0	57792	136
6	59381	186	1	57847	137
1	59621	190	3	58135	149
0	59757	199	4	58212	150
2	59889	204	4	58565	162
6	60088	213	7	58728	166
1	60439	224	1	59163	172
6	61414	244	4	59381	186
1	61790	250	2	59621	190
13	63215	281	5	59757	199
1	63405	291	2	59889	204
1	63529	294	3	60088	213
3	63970	301	2	60439	224
7	64206	314	1	61414	244
8	64128	313	2	61790	250
6	64333	330	0	62499	259
2	64435	339	1	62754	265
4	65036	349	1	63215	281
2	70142	367	1	63405	291
			8	63529	294
			6	63970	301
			2	64128	313
			3	64206	314
			5	64333	330
			0	64435	339
			1	65036	349
			6	70142	367

Average Duplicate RPD = 4	%	Average LCS RPD = 3	%
Maximum Duplicate RPD = 22	%	Maximum LCS RPD = 9	%

Table Mn-7: Manganese - Laboratory Duplicates and LCS Duplicates (Graph)



MANGANESE CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	A1	ES-A01-090910	MANGANESE	950	09/23/09	61414	Y	ES-A01-090910
East Site	A1	ES-A01-102109	MANGANESE	918	11/05/09	62754	Y	DUP-40
East Site	B1	ES-B01-080623	MANGANESE	877	05/01/09	57147	Y	ES-B01-080623
East Site	C1	ES-C01-080624	MANGANESE	503	05/01/09	57147	Y	ES-C01-080624
East Site	C1	ES-C01-090910	MANGANESE	513	10/28/09	62499	Y	DUP-39
East Site	C1	ES-C01-090910	MANGANESE	540	11/09/09	61414	Y	ES-C01-090910
East Site	D1	ES-D01-080624	MANGANESE	476	06/09/09	58135	Y	ES-D01-080624
East Site	E1	ES-E01-090910	MANGANESE	248	09/23/09	61414	Y	ES-E01-090910
East Site	E2	ES-E02-090910	MANGANESE	509	09/23/09	61414	Y	ES-E02-090910
East Site	F1	ES-F01-080529	MANGANESE	753	05/01/09	57284	Y	DUP-17
East Site	F1	ES-F01-080529	MANGANESE	774	05/11/09	57543	Y	ES-F01-080529
East Site	G1	ES-G01-080529	MANGANESE	452	05/11/09	57543	Y	ES-G01-080529
East Site	G2	ES-G02-080605	MANGANESE	444	05/11/09	57543	Y	ES-G02-080605
East Site	H1	ES-H01-080528	MANGANESE	601	05/11/09	57543	Y	ES-H01-080528
East Site	H1	ES-H01-091105	MANGANESE	287	12/08/09	63405	Y	ES-H01-091105
East Site	H2	ES-H02-080515	MANGANESE	378	05/11/09	57543	Y	ES-H02-080515
East Site	H3	ES-H03-080605	MANGANESE	271	05/24/09	57792	Y	ES-H03-080605
East Site	I1	ES-I01-080529	MANGANESE	387	05/24/09	57792	Y	ES-I01-080529
East Site	I1	ES-I01-091105	MANGANESE	380	12/08/09	63405	Y	ES-I01-091105
East Site	I2	ES-I02-080514	MANGANESE	325	05/24/09	57792	Y	ES-I02-080514
East Site	I3	ES-I03-080513	MANGANESE	307	05/24/09	57792	Y	ES-I03-080513
East Site	I4	ES-I04-080602	MANGANESE	457	05/24/09	57792	Y	ES-I04-080602
East Site	I4	ES-I04-091106	MANGANESE	230	12/08/09	63405	Y	ES-I04-091106
East Site	J1	ES-J01-080529	MANGANESE	339	05/24/09	57792	Y	ES-J01-080529
East Site	J2	ES-J02-080527	MANGANESE	488	05/11/09	57543	Y	DUP-15
East Site	J2	ES-J02-080527	MANGANESE	491	05/24/09	57792	Y	ES-J02-080527
East Site	J2	ES-J02-091105	MANGANESE	447	12/08/09	63405	Y	ES-J02-091105
East Site	J3	ES-J03-080513	MANGANESE	270	05/01/09	57147	Y	DUP-11
East Site	J3	ES-J03-080513	MANGANESE	287	06/20/09	58565	Y	ES-J03-080513
East Site	J3	ES-J03-091103	MANGANESE	261	11/25/09	63215	Y	ES-J03-091103
East Site	J4	ES-J04-080530	MANGANESE	303	05/11/09	57543	Y	DUP-18
East Site	J4	ES-J04-080530	MANGANESE	293	05/24/09	57792	Y	ES-J04-080530
East Site	J4	ES-J04-091103	MANGANESE	402	11/25/09	63215	Y	ES-J04-091103
East Site	J5	ES-J05-080602	MANGANESE	426	05/24/09	57792	Y	ES-J05-080602
East Site	J5	ES-J05-091124	MANGANESE	393	12/15/09	63529	Y	ES-J05-091124
East Site	J5	ES-J05-091124	MANGANESE	403	01/19/10	64128	Y	DUP-45
East Site	J5	ES-J05-100112	MANGANESE	358	01/27/10	64333	Y	ES-J05-100112
East Site	K1	ES-K01-080602	MANGANESE	331	05/24/09	57792	Y	ES-K01-080602
East Site	K2	ES-K02-080602	MANGANESE	328	05/11/09	57543	Y	ES-K02-080602
East Site	K2	ES-K02-091103	MANGANESE	495	11/25/09	63215	Y	ES-K02-091103
East Site	K2	ES-K02-091103	MANGANESE	489	01/27/10	64333	Y	DUP-47
East Site	K3	ES-K03-080514	MANGANESE	660	05/24/09	57792	Y	ES-K03-080514

MANGANESE CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	K3	ES-K03-091103	MANGANESE	343	11/25/09	63215	Y	ES-K03-091103
East Site	K4	ES-K04-080527	MANGANESE	390	05/28/09	57847	Y	ES-K04-080527
East Site	K5	ES-K05-080605	MANGANESE	283	05/28/09	57847	Y	ES-K05-080605
East Site	K5	ES-K05-080605	MANGANESE	283	05/28/09	57847	Y	DUP-19
East Site	K7	ES-K07-080611	MANGANESE	621	05/01/09	57284	Y	ES-K07-080611
East Site	K7	ES-K07-090924	MANGANESE	443	10/05/09	61790	Y	ES-K07-090924
East Site	K7	ES-K07-091123	MANGANESE	459	12/14/09	63529	Y	ES-K07-091123
East Site	L1	ES-L01-080625	MANGANESE	448	05/28/09	57847	Y	ES-L01-080625
East Site	L2	ES-L02-080625	MANGANESE	492	05/28/09	57847	Y	ES-L02-080625
East Site	L3	ES-L03-080604	MANGANESE	352	05/28/09	57847	Y	ES-L03-080604
East Site	L3	ES-L03-091104	MANGANESE	412	11/25/09	63215	Y	ES-L03-091104
East Site	L4	ES-L04-080604	MANGANESE	319	06/20/09	58565	Y	ES-L04-080604
East Site	L4	ES-L04-091104	MANGANESE	363	11/25/09	63215	Y	ES-L04-091104
East Site	L5	ES-L05-091104	MANGANESE	489	11/25/09	63215	Y	ES-L05-091104
East Site	L6	ES-L06-091104	MANGANESE	476	11/25/09	63215	Y	ES-L06-091104
East Site	M1	ES-M01-080527	MANGANESE	361	05/28/09	57847	Y	ES-M01-080527
East Site	M2	ES-M02-080519	MANGANESE	367	05/28/09	57847	Y	ES-M02-080519
East Site	M3	ES-M03-091022	MANGANESE	519	11/05/09	62754	Y	ES-M03-091022
East Site	M3	ES-M03-091228	MANGANESE	439	01/19/10	64128	Y	ES-M03-091228
East Site	M4	ES-M04-080515	MANGANESE	303	05/28/09	57847	Y	ES-M04-080515
East Site	M5	ES-M05-080527	MANGANESE	490	05/28/09	57847	Y	ES-M05-080527
East Site	M6	ES-M06-080520	MANGANESE	531	05/28/09	57847	Y	ES-M06-080520
East Site	M6	ES-M06-091105	MANGANESE	470	12/08/09	63405	Y	ES-M06-091105
East Site	M7	ES-M07-091105	MANGANESE	389	12/08/09	63405	Y	ES-M07-091105
East Site	M8	ES-M08-080610	MANGANESE	398	05/01/09	57284	Y	ES-M08-080610
East Site	M8	ES-M08-090924	MANGANESE	586	10/05/09	61790	Y	ES-M08-090924
East Site	M8	ES-M08-091123	MANGANESE	395	12/15/09	63529	Y	ES-M08-091123
East Site	M9	ES-M09-080611	MANGANESE	263	05/01/09	57284	Y	ES-M09-080611
East Site	N2	ES-N02-080528	MANGANESE	249	05/28/09	57847	Y	ES-N02-080528
East Site	N3	ES-N03-080520	MANGANESE	321	05/28/09	57847	Y	ES-N03-080520
East Site	N4	ES-N04-080519	MANGANESE	254	05/28/09	57847	Y	ES-N04-080519
East Site	N5	ES-N05-080519	MANGANESE	287	05/28/09	57847	Y	ES-N05-080519
East Site	N5	ES-N05-091105	MANGANESE	439	12/08/09	63405	Y	ES-N05-091105
East Site	N6	ES-N06-080527	MANGANESE	444	06/09/09	58135	Y	ES-N06-080527
East Site	N7	ES-N07-080530	MANGANESE	634	06/09/09	58135	Y	ES-N07-080530
East Site	N7	ES-N07-100225	MANGANESE	450	03/05/10	65036	Y	ES-N07-100225
East Site	N8	ES-N08-080610	MANGANESE	185	05/01/09	57284	Y	ES-N08-080610
East Site	N8	ES-N08-090924	MANGANESE	475	10/05/09	61790	Y	ES-N08-090924
East Site	N8	ES-N08-091124	MANGANESE	446	12/15/09	63529	Y	ES-N08-091124
East Site	N9	ES-N09-080610	MANGANESE	291	05/04/09	57284	Y	ES-N09-080610
East Site	N9	ES-N09-090924	MANGANESE	533	10/05/09	61790	Y	ES-N09-090924
East Site	N10	ES-N10-080610	MANGANESE	228	05/01/09	57284	Y	ES-N10-080610

MANGANESE CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	O3	ES-O03-080528	MANGANESE	298	06/09/09	58135	Y	ES-O03-080528
East Site	O4	ES-O04-080515	MANGANESE	314	06/09/09	58135	Y	ES-O04-080515
East Site	O5	ES-O05-080520	MANGANESE	318	06/09/09	58135	Y	ES-O05-080520
East Site	O6	ES-O06-080529	MANGANESE	422	06/09/09	58135	Y	ES-O06-080529
East Site	O6	ES-O06-091105	MANGANESE	460	12/08/09	63405	Y	ES-O06-091105
East Site	O7	ES-O07-100225	MANGANESE	432	03/05/10	65036	Y	ES-O07-100225
East Site	O8	ES-O08-080530	MANGANESE	544	07/27/09	59757	Y	ES-O08-080530
East Site	O8	ES-O08-100225	MANGANESE	334	03/05/10	65036	Y	ES-O08-100225
East Site	O9	ES-O09-091014	MANGANESE	549	10/28/09	62499	Y	ES-O09-091014
East Site	O9	ES-O09-092309	MANGANESE	478	10/05/09	61790	Y	ES-O09-092309
East Site	O10	ES-O10-091014	MANGANESE	524	10/28/09	62499	Y	ES-O10-091014
East Site	O10	ES-O10-091123	MANGANESE	457	12/14/09	63529	Y	ES-O10-091123
East Site	O10	ES-O10-092309	MANGANESE	439	10/05/09	61790	Y	ES-O10-092309
East Site	P4	ES-P04-080528	MANGANESE	278	05/24/09	57792	Y	DUP-16
East Site	P4	ES-P04-080528	MANGANESE	290	06/09/09	58135	Y	ES-P04-080528
East Site	P5	ES-P05-080513	MANGANESE	406	06/09/09	58135	Y	ES-P05-080513
East Site	P6	ES-P06-080515	MANGANESE	443	05/24/09	57792	Y	DUP-12
East Site	P6	ES-P06-080515	MANGANESE	442	06/09/09	58135	Y	ES-P06-080515
East Site	P7	ES-P07-080519	MANGANESE	430	05/28/09	57847	Y	ES-P07-080519
East Site	P7	ES-P07-091022	MANGANESE	386	11/05/09	62754	Y	ES-P07-091022
East Site	P8	ES-P08-080530	MANGANESE	336	06/09/09	58135	Y	ES-P08-080530
East Site	P10	ES-P10-080606	MANGANESE	383	05/01/09	57284	Y	ES-P10-080606
East Site	P10	ES-P10-091014	MANGANESE	474	10/28/09	62499	Y	ES-P10-091014
East Site	P10	ES-P10-092309	MANGANESE	510	10/05/09	61790	Y	ES-P10-092309
East Site	P11	ES-P11-080606	MANGANESE	422	05/01/09	57284	Y	ES-P11-080606
East Site	P11	ES-P11-092309	MANGANESE	452	10/05/09	61790	Y	ES-P11-092309
East Site	Q5	ES-Q05-080520	MANGANESE	321	06/09/09	58135	Y	ES-Q05-080520
East Site	Q5	ES-Q05-091105	MANGANESE	468	12/08/09	63405	Y	ES-Q05-091105
East Site	Q6	ES-Q06-091021	MANGANESE	443	11/05/09	62754	Y	ES-Q06-091021
East Site	Q7	ES-Q07-091021	MANGANESE	491	11/05/09	62754	Y	ES-Q07-091021
East Site	Q7	ES-Q07-091228	MANGANESE	437	01/19/10	64128	Y	ES-Q07-091228
East Site	Q8	ES-Q08-091021	MANGANESE	333	11/05/09	62754	Y	ES-Q08-091021
East Site	Q8	ES-Q08-091228	MANGANESE	307	01/19/10	64128	Y	ES-Q08-091228
East Site	Q9	ES-Q09-080612	MANGANESE	350	06/09/09	58135	Y	ES-Q09-080612
East Site	Q10	ES-Q10-080606	MANGANESE	475	05/11/09	57543	Y	ES-Q10-080606
East Site	Q10	ES-Q10-091123	MANGANESE	346	12/14/09	63529	Y	ES-Q10-091123
East Site	Q10	ES-Q10-092309	MANGANESE	487	10/05/09	61790	Y	ES-Q10-092309
East Site	Q11	ES-Q11-080606	MANGANESE	501	05/11/09	57543	Y	ES-Q11-080606
East Site	Q17	ES-Q17-080609	MANGANESE	363	05/01/09	57147	Y	ES-Q17-080609
East Site	R5	ES-R05-080521	MANGANESE	309	06/09/09	58135	Y	ES-R05-080521
East Site	R5	ES-R05-091105	MANGANESE	365	12/08/09	63405	Y	ES-R05-091105
East Site	R6	ES-R06-080521	MANGANESE	545	06/20/09	58565	Y	ES-R06-080521

MANGANESE CVS Results from 12/16/2010 database								
Site	quarter_acre _grid	sample_location	chemical_name	result_value	analysis_ date	batch_id	detect _flag	sample_name
East Site	R7	ES-R07-080521	MANGANESE	395	06/10/09	58212	Y	ES-R07-080521
East Site	R8	ES-R08-091021	MANGANESE	487	11/05/09	62754	Y	ES-R08-091021
East Site	R8	ES-R08-091021	MANGANESE	408	01/19/10	64206	Y	DUP-46
East Site	R9	ES-R09-080520	MANGANESE	268	06/10/09	58212	Y	ES-R09-080520
East Site	R10	ES-R10-080602	MANGANESE	370	06/10/09	58212	Y	ES-R10-080602
East Site	R11	ES-R11-080605	MANGANESE	415	05/11/09	57543	Y	ES-R11-080605
East Site	R11	ES-R11-090910	MANGANESE	507	10/28/09	62499	Y	DUP-38
East Site	R11	ES-R11-090910	MANGANESE	441	11/09/09	61414	Y	ES-R11-090910
East Site	R12	ES-R12-080611	MANGANESE	368	05/11/09	57543	Y	ES-R12-080611
East Site	R16	ES-R16-080605	MANGANESE	292	05/01/09	57147	Y	ES-R16-080605
East Site	R17	ES-R17-080606	MANGANESE	346	05/01/09	57147	Y	ES-R17-080606
East Site	S5	ES-S05-080521	MANGANESE	443	06/10/09	58212	Y	ES-S05-080521
East Site	S6	ES-S06-080521	MANGANESE	310	06/10/09	58212	Y	ES-S06-080521
East Site	S7	ES-S07-080521	MANGANESE	485	06/10/09	58212	Y	ES-S07-080521
East Site	S8	ES-S08-091015	MANGANESE	412	10/28/09	62499	Y	ES-S08-091015
East Site	S9	ES-S09-080522	MANGANESE	401	06/10/09	58212	Y	ES-S09-080522
East Site	S10	ES-S10-080523	MANGANESE	348	06/10/09	58212	Y	ES-S10-080523
East Site	S11	ES-S11-080528	MANGANESE	327	06/10/09	58212	Y	ES-S11-080528
East Site	S12	ES-S12-080609	MANGANESE	463	05/01/09	57147	Y	ES-S12-080609
East Site	S13	ES-S13-080610	MANGANESE	400	05/01/09	57147	Y	ES-S13-080610
East Site	S17	ES-S17-090910	MANGANESE	358	09/23/09	61414	Y	ES-S17-090910
East Site	S17	ES-S17-090910	MANGANESE	375	10/05/09	61790	Y	DUP-37
East Site	S18	ES-S18-080606	MANGANESE	289	05/01/09	57147	Y	ES-S18-080606
East Site	T7	ES-T07-080612	MANGANESE	377	06/10/09	58212	Y	ES-T07-080612
East Site	T8	ES-T08-080522	MANGANESE	308	06/09/09	58135	Y	DUP-13
East Site	T8	ES-T08-080522	MANGANESE	320	06/10/09	58212	Y	ES-T08-080522
East Site	T9	ES-T09-080522	MANGANESE	334	06/10/09	58212	Y	ES-T09-080522
East Site	T10	ES-T10-080523	MANGANESE	419	06/10/09	58212	Y	ES-T10-080523
East Site	T10	ES-T10-080523	MANGANESE	417	06/10/09	58212	Y	DUP-14
East Site	T10	ES-T10-091015	MANGANESE	425	10/28/09	62499	Y	ES-T10-091015
East Site	T11	ES-T11-080530	MANGANESE	662	06/10/09	58212	Y	ES-T11-080530
East Site	T12	ES-T12-080609	MANGANESE	357	05/01/09	57147	Y	ES-T12-080609
East Site	T13	ES-T13-080609	MANGANESE	371	05/01/09	57147	Y	ES-T13-080609
East Site	T14	ES-T14-080610	MANGANESE	1170	05/01/09	57147	Y	ES-T14-080610
East Site	U10	ES-U10-080523	MANGANESE	352	06/10/09	58212	Y	ES-U10-080523
East Site	U11	ES-U11-080602	MANGANESE	553	06/20/09	58565	Y	ES-U11-080602
East Site	U13	ES-U13-080610	MANGANESE	840	05/01/09	57284	Y	ES-U13-080610
East Site	U14	ES-U14-080610	MANGANESE	839	05/01/09	57284	Y	ES-U14-080610
East Site	V11	ES-V11-080529	MANGANESE	371	06/20/09	58565	Y	ES-V11-080529
East Site	V14	ES-V14-080605	MANGANESE	894	05/01/09	57284	Y	ES-V14-080605
East Site	W12	ES-W12-080527	MANGANESE	464	06/20/09	58565	Y	ES-W12-080527
West Site	A4	WS-A04-080626	MANGANESE	318	07/13/09	59381	Y	WS-A04-080626

MANGANESE CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	B2	WS-B02-100120	MANGANESE	260	02/04/10	64435	Y	WS-B02-100120
West Site	B3	WS-B03-080502	MANGANESE	400	07/13/09	59381	Y	WS-B03-080502
West Site	B4	WS-B04-080626	MANGANESE	414	07/13/09	59381	Y	WS-B04-080626
West Site	B5	WS-B05-080626	MANGANESE	400	07/27/09	59757	Y	WS-B05-080626
West Site	C1	WS-C01-080501	MANGANESE	431	06/20/09	58565	Y	WS-C01-080501
West Site	C1	WS-C01-080501	MANGANESE	403	06/20/09	58565	Y	DUP-3
West Site	C2	WS-C02-080428	MANGANESE	286	07/20/09	59621	Y	WS-C02-080428
West Site	C2	WS-C02-100120	MANGANESE	228	02/04/10	64435	Y	WS-C02-100120
West Site	C3	WS-C03-080620	MANGANESE	483	07/20/09	59621	Y	WS-C03-080620
West Site	C4	WS-C04-080623	MANGANESE	442	07/20/09	59621	Y	WS-C04-080623
West Site	C5	WS-C05-080620	MANGANESE	453	07/27/09	59757	Y	WS-C05-080620
West Site	C5	WS-C05-100112	MANGANESE	421	01/27/10	64333	Y	WS-C05-100112
West Site	C6	WS-C06-080624	MANGANESE	315	07/27/09	59757	Y	WS-C06-080624
West Site	C6	WS-C06-091013	MANGANESE	316	10/28/09	62499	Y	WS-C06-091013
West Site	D1	WS-D01-080430	MANGANESE	491	06/20/09	58565	Y	WS-D01-080430
West Site	D2	WS-D02-080429	MANGANESE	438	07/13/09	59381	Y	DUP-2
West Site	D2	WS-D02-080429	MANGANESE	448	07/20/09	59621	Y	WS-D02-080429
West Site	D3	WS-D03-080620	MANGANESE	461	07/20/09	59621	Y	WS-D03-080620
West Site	D4	WS-D04-080623	MANGANESE	657	08/18/09	60439	Y	WS-D04-080623
West Site	D4	WS-D04-091230	MANGANESE	441	01/19/10	64128	Y	WS-D04-091230
West Site	D5	WS-D05-080620	MANGANESE	264	07/27/09	59757	Y	WS-D05-080620
West Site	D5	WS-D05-100111	MANGANESE	369	01/27/10	64333	Y	WS-D05-100111
West Site	D6	WS-D06-080619	MANGANESE	446	07/27/09	59757	Y	WS-D06-080619
West Site	D6	WS-D06-091013	MANGANESE	532	10/28/09	62499	Y	WS-D06-091013
West Site	D7	WS-D07-080619	MANGANESE	349	07/27/09	59757	Y	WS-D07-080619
West Site	D7	WS-D07-091013	MANGANESE	346	10/28/09	62499	Y	WS-D07-091013
West Site	E1	WS-E01-080430	MANGANESE	709	06/20/09	58565	Y	WS-E01-080430
West Site	E2	WS-E02-080428	MANGANESE	389	07/13/09	59381	Y	DUP-1
West Site	E2	WS-E02-080428	MANGANESE	388	07/20/09	59621	Y	WS-E02-080428
West Site	E2	WS-E02-100115	MANGANESE	303	02/04/10	64435	Y	WS-E02-100115
West Site	E3	WS-E03-080619	MANGANESE	435	07/20/09	59621	Y	WS-E03-080619
West Site	E4	WS-E04-080613	MANGANESE	429	07/27/09	59757	Y	WS-E04-080613
West Site	E4	WS-E04-091230	MANGANESE	353	01/19/10	64128	Y	WS-E04-091230
West Site	E5	WS-E05-080613	MANGANESE	225	07/27/09	59757	Y	WS-E05-080613
West Site	E5	WS-E05-100111	MANGANESE	365	01/27/10	64333	Y	WS-E05-100111
West Site	E6	WS-E06-080613	MANGANESE	472	07/27/09	59757	Y	WS-E06-080613
West Site	E6	WS-E06-091228	MANGANESE	429	01/19/10	64128	Y	WS-E06-091228
West Site	E7	WS-E07-080613	MANGANESE	384	07/27/09	59757	Y	WS-E07-080613
West Site	E7	WS-E07-091228	MANGANESE	218	01/19/10	64128	Y	WS-E07-091228
West Site	E8	WS-E08-091228	MANGANESE	416	01/19/10	64128	Y	WS-E08-091228
West Site	F1	WS-F01-080429	MANGANESE	463	06/20/09	58565	Y	WS-F01-080429
West Site	F1	WS-F01-100115	MANGANESE	222	02/04/10	64435	Y	WS-F01-100115

MANGANESE CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	F2	WS-F02-080429	MANGANESE	379	07/20/09	59621	Y	WS-F02-080429
West Site	F2	WS-F02-100115	MANGANESE	343	02/04/10	64435	Y	WS-F02-100115
West Site	F3	WS-F03-080619	MANGANESE	418	07/20/09	59621	Y	WS-F03-080619
West Site	F3	WS-F03-100115	MANGANESE	351	02/04/10	64435	Y	WS-F03-100115
West Site	F4	WS-F04-080616	MANGANESE	426	07/29/09	59889	Y	WS-F04-080616
West Site	F4	WS-F04-091230	MANGANESE	366	01/19/10	64128	Y	WS-F04-091230
West Site	F5	WS-F05-080612	MANGANESE	258	08/18/09	60439	Y	WS-F05-080612
West Site	F5	WS-F05-100111	MANGANESE	440	01/27/10	64333	Y	WS-F05-100111
West Site	F6	WS-F06-080612	MANGANESE	308	07/29/09	59889	Y	WS-F06-080612
West Site	F6	WS-F06-091228	MANGANESE	404	01/19/10	64128	Y	WS-F06-091228
West Site	F7	WS-F07-080617	MANGANESE	409	06/29/09	58728	Y	WS-F07-080617
West Site	F8	WS-F08-080618	MANGANESE	642	06/29/09	58728	Y	WS-F08-080618
West Site	G1	WS-G01-080501	MANGANESE	735	06/20/09	58565	Y	DUP-4
West Site	G1	WS-G01-080501	MANGANESE	762	06/29/09	58728	Y	WS-G01-080501
West Site	G1	WS-G01-100113	MANGANESE	301	01/27/10	64333	Y	WS-G01-100113
West Site	G1	WS-G01-100223	MANGANESE	383	03/05/10	65036	Y	WS-G01-100223
West Site	G2	WS-G02-080618	MANGANESE	440	07/20/09	59621	Y	WS-G02-080618
West Site	G2	WS-G02-100113	MANGANESE	472	01/27/10	64333	Y	WS-G02-100113
West Site	G3	WS-G03-080619	MANGANESE	395	07/20/09	59621	Y	WS-G03-080619
West Site	G4	WS-G04-080616	MANGANESE	404	07/29/09	59889	Y	WS-G04-080616
West Site	G5	WS-G05-100108	MANGANESE	506	01/19/10	64206	Y	WS-G05-100108
West Site	G5	WS-G05-100223	MANGANESE	522	03/05/10	65036	Y	WS-G05-100223
West Site	G6	WS-G06-080616	MANGANESE	426	07/29/09	59889	Y	WS-G06-080616
West Site	G6	WS-G06-100107	MANGANESE	490	01/19/10	64206	Y	WS-G06-100107
West Site	G7	WS-G07-080617	MANGANESE	982	06/29/09	58728	Y	WS-G07-080617
West Site	G7	WS-G07-100105	MANGANESE	526	01/19/10	64206	Y	WS-G07-100105
West Site	H1	WS-H01-080501	MANGANESE	787	06/29/09	58728	Y	WS-H01-080501
West Site	H2	WS-H02-080618	MANGANESE	509	07/20/09	59621	Y	WS-H02-080618
West Site	H2	WS-H02-100113	MANGANESE	510	01/27/10	64333	Y	WS-H02-100113
West Site	H3	WS-H03-080619	MANGANESE	405	07/29/09	59889	Y	WS-H03-080619
West Site	H4	WS-H04-080616	MANGANESE	465	07/29/09	59889	Y	WS-H04-080616
West Site	H5	WS-H05-100107	MANGANESE	476	01/19/10	64206	Y	WS-H05-100107
West Site	H6	WS-H06-080617	MANGANESE	741	06/29/09	58728	Y	WS-H06-080617
West Site	I1	WS-I01-080501	MANGANESE	699	06/29/09	58728	Y	WS-I01-080501
West Site	I1	WS-I01-080501	MANGANESE	688	06/29/09	58728	Y	DUP-5
West Site	I1	WS-I01-091013	MANGANESE	662	10/28/09	62499	Y	WS-I01-091013
West Site	I2	WS-I02-080618	MANGANESE	533	07/27/09	59757	Y	WS-I02-080618
West Site	I2	WS-I02-091014	MANGANESE	548	10/28/09	62499	Y	WS-I02-091014
West Site	I2	WS-I02-100113	MANGANESE	476	01/27/10	64333	Y	WS-I02-100113
West Site	I3	WS-I03-080618	MANGANESE	434	07/29/09	59889	Y	WS-I03-080618
West Site	I3	WS-I03-091013	MANGANESE	495	10/28/09	62499	Y	WS-I03-091013
West Site	I3	WS-I03-100113	MANGANESE	325	01/27/10	64333	Y	WS-I03-100113

MANGANESE CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	I4	WS-I04-080617	MANGANESE	408	07/29/09	59889	Y	WS-I04-080617
West Site	I4	WS-I04-100106	MANGANESE	394	01/19/10	64206	Y	WS-I04-100106
West Site	I5	WS-I05-080617	MANGANESE	446	06/29/09	58728	Y	WS-I05-080617
West Site	I5	WS-I05-091013	MANGANESE	443	10/28/09	62499	Y	WS-I05-091013
West Site	I5	WS-I05-100107	MANGANESE	439	01/19/10	64206	Y	WS-I05-100107
West Site	I6	WS-I06-080617	MANGANESE	780	06/29/09	58728	Y	WS-I06-080617
West Site	I6	WS-I06-100105	MANGANESE	441	01/19/10	64206	Y	WS-I06-100105
West Site	J1	WS-J01-080505	MANGANESE	999	06/29/09	58728	Y	WS-J01-080505
West Site	J1	WS-J01-080505	MANGANESE	1020	06/29/09	58728	Y	DUP-6
West Site	J1	WS-J01-091013	MANGANESE	996	10/28/09	62499	Y	WS-J01-091013
West Site	J1	WS-J01-100112	MANGANESE	454	01/27/10	64333	Y	WS-J01-100112
West Site	J2	WS-J02-080624	MANGANESE	594	06/29/09	58728	Y	WS-J02-080624
West Site	J2	WS-J02-100112	MANGANESE	602	01/27/10	64333	Y	WS-J02-100112
West Site	J3	WS-J03-080620	MANGANESE	427	07/07/09	59163	Y	WS-J03-080620
West Site	J4	WS-J04-080617	MANGANESE	322	07/08/09	59163	Y	WS-J04-080617
West Site	J4	WS-J04-100106	MANGANESE	372	01/19/10	64206	Y	WS-J04-100106
West Site	J5	WS-J05-080618	MANGANESE	465	07/08/09	59163	Y	WS-J05-080618
West Site	K1	WS-K01-080505	MANGANESE	853	07/08/09	59163	Y	WS-K01-080505
West Site	K1	WS-K01-091013	MANGANESE	842	10/28/09	62499	Y	WS-K01-091013
West Site	K2	WS-K02-080509	MANGANESE	544	07/08/09	59163	Y	WS-K02-080509
West Site	K3	WS-K03-080509	MANGANESE	331	07/08/09	59163	Y	WS-K03-080509
West Site	K4	WS-K04-080513	MANGANESE	304	07/08/09	59163	Y	WS-K04-080513
West Site	K4	WS-K04-080513	MANGANESE	308	07/27/09	59757	Y	DUP-10
West Site	K4	WS-K04-100106	MANGANESE	285	01/19/10	64206	Y	WS-K04-100106
West Site	K5	WS-K05-080509	MANGANESE	335	07/08/09	59163	Y	WS-K05-080509
West Site	L1	WS-L01-080505	MANGANESE	628	07/08/09	59163	Y	WS-L01-080505
West Site	L2	WS-L02-080508	MANGANESE	521	07/08/09	59163	Y	WS-L02-080508
West Site	L3	WS-L03-080508	MANGANESE	340	07/08/09	59163	Y	WS-L03-080508
West Site	L4	WS-L04-080508	MANGANESE	376	07/08/09	59163	Y	WS-L04-080508
West Site	L4	WS-L04-080508	MANGANESE	369	07/08/09	59163	Y	DUP-9
West Site	M1	WS-M01-080505	MANGANESE	577	07/08/09	59163	Y	DUP-7
West Site	M1	WS-M01-080505	MANGANESE	575	07/08/09	59163	Y	WS-M01-080505
West Site	M2	WS-M02-080507	MANGANESE	492	07/27/09	59757	Y	WS-M02-080507
West Site	M3	WS-M03-080507	MANGANESE	251	07/20/09	59621	Y	DUP-8
West Site	M3	WS-M03-080507	MANGANESE	251	08/05/09	60088	Y	WS-M03-080507
West Site	M3	WS-M03-091217	MANGANESE	275	01/05/10	63970	Y	WS-M03-091217
West Site	M3	WS-M03-091217	MANGANESE	262	03/05/10	65036	Y	DUP-48
West Site	M4	WS-M04-080507	MANGANESE	301	08/05/09	60088	Y	WS-M04-080507
West Site	M4	WS-M04-091218	MANGANESE	208	01/05/10	63970	Y	WS-M04-091218
West Site	M4	WS-M04-091218	MANGANESE	210	01/19/10	64128	Y	DUP-44
West Site	N1	WS-N01-080506	MANGANESE	448	08/05/09	60088	Y	WS-N01-080506
West Site	N2	WS-N02-080506	MANGANESE	323	07/13/09	59381	Y	WS-N02-080506

MANGANESE CVS Results from 12/16/2010 database								
Site	quarter_acre_grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	N3	WS-N03-080507	MANGANESE	188	06/29/09	58728	Y	WS-N03-080507
West Site	O1	WS-O01-080506	MANGANESE	340	07/13/09	59381	Y	WS-O01-080506
West Site	O2	WS-O02-080506	MANGANESE	196	07/13/09	59381	Y	WS-O02-080506

Table Hg-1: Mercury Data Quality Summary			
Laboratory Performance Criteria	Criteria	Measured	Comment
Minimum LCS Recovery	greater than 80%	90%	
Minimum Matrix Spike Recovery	greater than 70%	40%	
Average LCS Recovery	N/A	97%	
Average Matrix Spike Recovery	N/A	91%	
Maximum LCS RPD	less than 20%	5%	
Maximum Laboratory Duplicate RPD	less than 20%	33%	
Average LCS RPD	N/A	1%	
Average Laboratory Duplicate RPD	N/A	6%	
Measurement Quality Objectives	Critera	Measured	
NPS CRM	See Note 1		
EQIS CRM	See Note 2		
CVS Split Analysis RPD	RPD less than 35%	Maximum RPD =	16 %
CRM Split Analysis RPD	RPD less than 35%	Maximum RPD =	13 %
Overall QC Indicator Measurements	Criteria	Measured	
NPS CRM "Made to" (Bias measure)	See Note 1		
NPS Replicate Test (Precision measure)	See Note 1		
Data Quality Relative to Remediation Goals			
Tier 1 Remediation Goal		1.7 mg/kg	
Tier 2 Remediation Goal		2.4 mg/kg	
QC Derived Reliance Level		2.6 mg/kg See Note 3	

Comments: Mercury analyses have potential for occasional bias and precision error as evidenced by a low minimum matrix spike recovery (40%) and a high maximum LCS RPD (33%) respectively. The average matrix spike recovery (91 %) is desirably high thereby indicating that imprecision is not common. In addition, the derived reliance level above the RGs indicates the data achieves desired quality. Based on the foregoing, as well as a review of the QC data, it is concluded that mercury CVS measurements have acceptable quality and may be used to determine RG achievement.

Note 1: NPS did not include CRMs or replicate sample QC for mercury for evaluation of data quality

Note 2: The QAPP required CRMs have only 4 analytes from each analyte group. Mercury is not one of these analytes.

Note 3: Due to the absence of NPS QC information for mercury, the derived reliance level (2.6 mg/kg) is calculated using an estimate of standard deviation (.0016 mg/kg) calculated from the results of CVS split RPDs and the average matrix spike recovery (91%).

Derived reliance level is calculated as:

(Tier 2 RG)(1.2)(Average Recovery)-(0.84)(Standard deviation) = (2.4)(1.2)(.91)-(0.84)(.0016) = 2.62 mg/kg

Table Hg-2: Mercury - NPS CRMs				
Blind NPS CRM Results				
Sample	Result	Analysis Date	Batch	Detect
No NPS CRMs				

CRMs	Vendor Supplied Information
Mean	*Made to*
Standard Error	
Median	
Standard Deviation	*Upper Acceptance Limit*
Sample Variance	
Kurtosis	
Skewness	*Lower Acceptance Limit*
Range	
Minimum	
Maximum	
Sum	
Count	
Largest(2)	
Smallest(2)	

Table Hg-3: Mercury- NPS Replicate Tests on a Background Sample				
Results of Replicate Analyses of a Single Sample				
Sample	Result	Analysis Date	Batch	Detect
No repeated tests on a single sample				
Replicate analyses of Single Sample				
Mean				
Standard Error				
Median				
Standard Deviation				
Sample Variance				
Kurtosis				
Skewness				
Range				
Minimum				
Maximum				
Sum				
Count				
Largest(2)				
Smallest(2)				

Table Hg-4: Mercury NPS and EQIS Duplicates

Sample	Result	Analysis Date	Batch	Split	Result	Analysis Date	RPD
DUP-27	0.028	6/16/09	58422	ES-S13-090602	0.028	6/16/09	0
DUP-26	0.018	6/18/09	58422	ES-T12-090602	0.019	6/16/09	5
DUP-25	0.031	6/18/09	58422	ES-U14-090601	0.03	6/16/09	3
DUP-29	0.027	6/24/09	58683	ES-S18-090604	0.023	6/18/09	16
DUP-28	0.039	6/24/09	58683	ES-V14-090602	0.034	6/16/09	14
DUP-30	0.021	7/9/09	59278	ES-D01-090608	0.022	6/18/09	5
DUP-31	0.021	7/9/09	59278	ES-G01-090608	0.021	6/18/09	0
DUP-32	0.04	8/12/09	60322	WS-C01-090709	0.04	7/31/09	0

RPD of Sample Splits	
Mean	5.379
Median	3.965
Standard Deviation	6.254
Sample Variance	39.109
Kurtosis	-0.407
Skewness	1.010
Range	16.000
Minimum	0.000
Maximum	16.000
Sum	43.034
Count	8.000
Largest(2)	13.699
Smallest(2)	0.000

Table Hg-5: Mercury EQIS CRMs

Results of Duplicate Analysis of EQIS CRMs

Sample	Result	Date	Batch	Detect	Average	RPD
ES-Z05-080519A	3	06/16/09	58417	Y		
ES-Z05-080519B	3	06/16/09	58417	Y	3.0	0
ES-Z06-080520A	2.8	06/16/09	58417	Y		
ES-Z06-080520B	3.2	06/16/09	58417	Y	3.0	13
ES-Z07-080522A	2.9	06/16/09	58422	Y		
ES-Z07-080522B	2.9	06/16/09	58422	Y	2.9	0
ES-Z08-080527A	3.1	06/24/09	58683	Y		
ES-Z08-080527B	3.1	06/24/09	58683	Y	3.1	0
ES-Z09-080529A	3.1	06/24/09	58683	Y		
ES-Z09-080529B	3.1	06/24/09	58683	Y	3.1	0
ES-Z10-080602A	3	07/09/09	59278	Y		
ES-Z10-080602B	3.1	07/09/09	59278	Y	3.1	3
ES-Z11-080605A	3	07/31/09	60029	Y		
ES-Z11-080605B	3.1	07/31/09	60029	Y	3.1	3
ES-Z12-080606A	3	08/12/09	60322	Y		
ES-Z12-080606B	3	08/12/09	60322	Y	3.0	0

Analysis of EQIS CRMs	
Mean	3.025
Median	3.000
Standard Deviation	0.100
Sample Variance	0.010
Kurtosis	0.457
Skewness	-0.571
Range	0.400
Minimum	2.800
Maximum	3.200
Sum	48.400
Count	16.000
Largest(2)	3.100
Smallest(2)	2.900

RPD of EQIS CRMs	
Mean	2.486
Median	0.000
Standard Deviation	4.626
Sample Variance	21.403
Kurtosis	5.604
Skewness	2.309
Range	13.333
Minimum	0.000
Maximum	13.333
Sum	19.891
Count	8.000
Largest(2)	3.279
Smallest(2)	0.000

Table Hg-6: Mercury Laboratory MS and LCS					
Matrix Spike Recovery %	Batch	Order	LCS Recovery %	Batch	Order
89	49293	17	96	7124036	3
103	49294	15	94	49293	17
93	49514	19	92	49294	15
95	49515	20	98	49514	19
94	58417	158	96	49515	20
96	58422	159	96	58417	158
104	58683	164	95	58422	159
98	59278	177	110	58683	164
98	60029	208	100	59278	177
40	60322	219	100	60029	208
88	60622	233	95	60322	219
84	60856	237	90	60622	233
91	60857	238	95	60856	237
97	61503	243	95	60857	238
85	61503	243	95	61503	243
97	61897	254	100	61897	254
84	62513	258	95	62513	258
88	62673	263	95	62673	263
94	63089	274	95	63089	274
82	63090	273	99	63090	273
92	63091	276	98	63091	276
100	63628	296	110	63628	296
106	63929	299	95	63929	299
86	64100	308	100	64100	308
81	64214	317	95	64214	317
88	64415	331	95	64415	331
98	64416	334	95	64416	334
92	65024	351	96	65024	351
91	70045	364	93	70045	364
Average MS Recovery = 91	%		Average LCS Recovery = 97	%	
Minimum MS Recovery = 40	%		Minimum LCS Recovery = 90	%	

Table Hg-6: Mercury Laboratory MS and LCS (Graph)

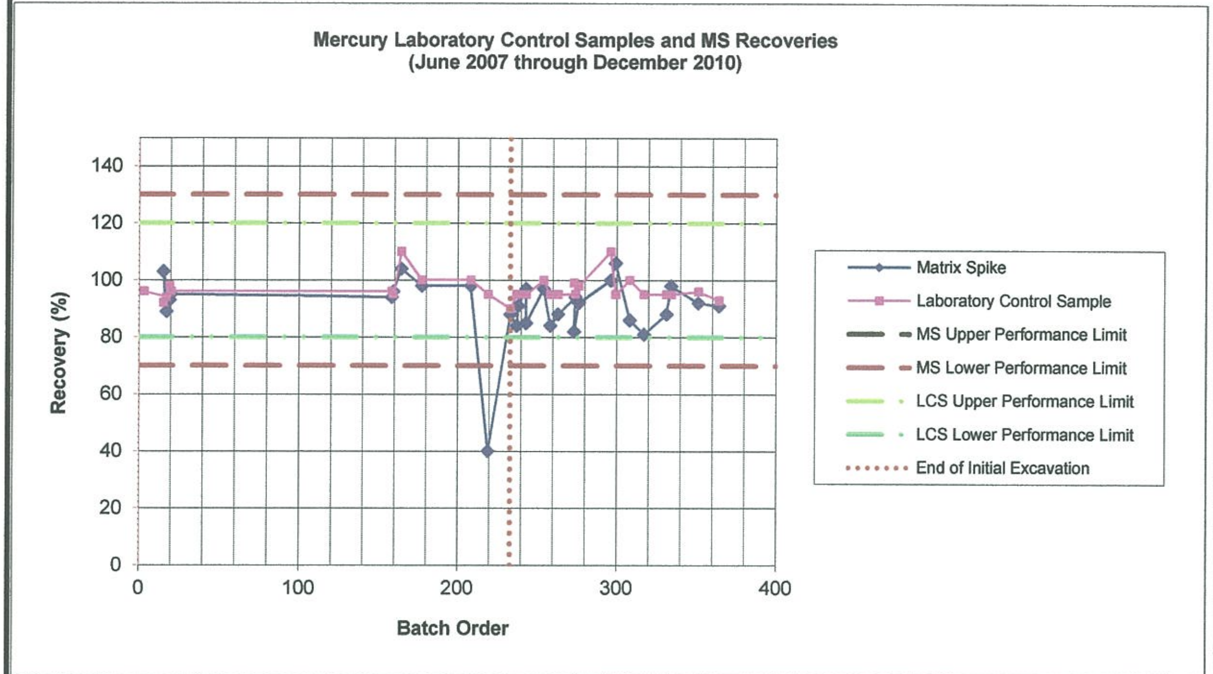
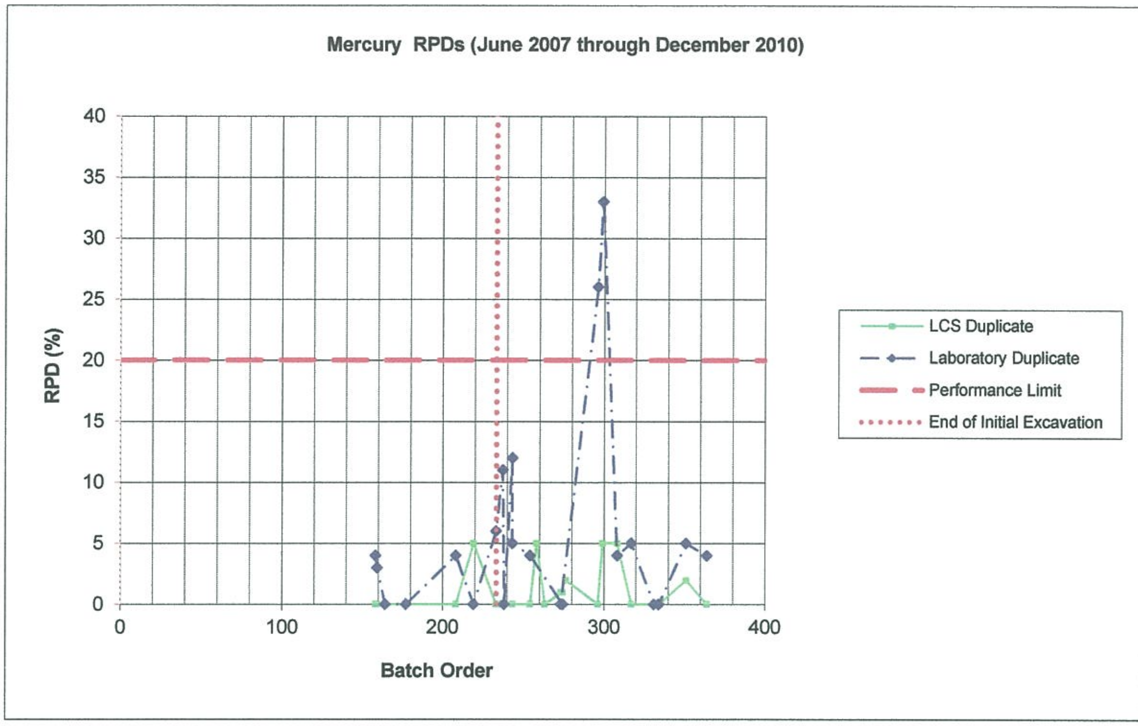


Table Hg-7: Mercury - Laboratory Duplicates and LCS Duplicates

Laboratory Duplicate RPD	Batch	Order	LCS Duplicate RPD	Batch	Order
4	58417	158	0	58417	158
3	58422	159	0	58422	159
0	58683	164	0	58683	164
0	59278	177	0	59278	177
4	60029	208	0	60029	208
0	60322	219	5	60322	219
6	60622	233	0	60622	233
11	60856	237	0	60856	237
0	60857	238	0	60857	238
12	61503	243	0	61503	243
5	61503	243	0	61897	254
4	61897	254	5	62513	258
0	63089	274	0	62673	263
0	63090	273	1	63089	274
26	63628	296	1	63090	273
33	63929	299	2	63091	276
4	64100	308	0	63628	296
5	64214	317	5	63929	299
0	64415	331	5	64100	308
0	64416	334	0	64214	317
5	65024	351	0	64415	331
4	70045	364	0	64416	334
			2	65024	351
			0	70045	364

Average Duplicate RPD = 6 % Average LCS RPD = 1 %
Maximum Duplicate RPD = 33 % Maximum LCS RPD = 5 %

Table Hg-7: Mercury - Laboratory Duplicates and LCS Duplicates (Graph)



MERCURY Results from 12/16/2010 database								
Site	grid	sample_location	chemical_name	result_value	analysis _date	batch_id	detect _flag	sample_name
East Site	A1	ES-A01-090910	MERCURY	0.053	09/22/09	61503	Y	ES-A01-090910
East Site	B1	ES-B01-090611	MERCURY	0.035	06/24/09	58683	Y	ES-B01-090611
East Site	C1	ES-C01-090910	MERCURY	0.041	09/22/09	61503	Y	ES-C01-090910
East Site	C1	ES-C01-090910	MERCURY	0.036	10/27/09	62513	Y	DUP-39
East Site	D1	ES-D01-090608	MERCURY	0.022	06/18/09	58422	Y	ES-D01-090608
East Site	D1	ES-D01-090608	MERCURY	0.021	07/09/09	59278	Y	DUP-30
East Site	E1	ES-E01-090910	MERCURY	0.026	09/22/09	61503	Y	ES-E01-090910
East Site	E2	ES-E02-090910	MERCURY	0.025	09/22/09	61503	Y	ES-E02-090910
East Site	F1	ES-F01-090608	MERCURY	0.022	06/18/09	58422	Y	ES-F01-090608
East Site	G1	ES-G01-090608	MERCURY	0.022	06/18/09	58422	Y	ES-G01-090608
East Site	G1	ES-G01-090608	MERCURY	0.021	07/09/09	59278	Y	DUP-31
East Site	G2	ES-G02-090610	MERCURY	0.025	06/24/09	58683	Y	ES-G02-090610
East Site	H1	ES-H01-091105	MERCURY	0.026	11/19/09	63090	Y	ES-H01-091105
East Site	H2	ES-H02-090605	MERCURY	0.026	06/18/09	58417	Y	ES-H02-090605
East Site	H3	ES-H03-090610	MERCURY	0.028	06/24/09	58683	Y	ES-H03-090610
East Site	I1	ES-I01-091105	MERCURY	0.021	11/19/09	63090	Y	ES-I01-091105
East Site	I2	ES-I02-090612	MERCURY	0.025	06/24/09	58683	Y	ES-I02-090612
East Site	I3	ES-I03-090610	MERCURY	0.026	06/24/09	58683	Y	ES-I03-090610
East Site	I4	ES-I04-091106	MERCURY	0.03	11/19/09	63090	Y	ES-I04-091106
East Site	J1	ES-J01-090609	MERCURY	0.029	06/18/09	58422	Y	ES-J01-090609
East Site	J2	ES-J02-090609	MERCURY	0.029	06/18/09	58422	Y	ES-J02-090609
East Site	J2	ES-J02-091105	MERCURY	0.017	11/19/09	63090	Y	ES-J02-091105
East Site	J3	ES-J03-091103	MERCURY	0.03	11/19/09	63089	Y	ES-J03-091103
East Site	J4	ES-J04-091103	MERCURY	0.024	11/19/09	63089	Y	ES-J04-091103
East Site	J5	ES-J05-091124	MERCURY	0.035	12/15/09	63628	Y	ES-J05-091124
East Site	J5	ES-J05-091124	MERCURY	0.031	01/12/10	64100	Y	DUP-45
East Site	J5	ES-J05-100112	MERCURY	0.025	01/28/10	64415	Y	ES-J05-100112
East Site	K1	ES-K01-090611	MERCURY	0.029	06/24/09	58683	Y	ES-K01-090611
East Site	K2	ES-K02-091103	MERCURY	0.025	11/19/09	63089	Y	ES-K02-091103
East Site	K2	ES-K02-091103	MERCURY	0.025	01/28/10	64415	Y	DUP-47
East Site	K3	ES-K03-091103	MERCURY	0.029	11/19/09	63089	Y	ES-K03-091103
East Site	K4	ES-K04-090609	MERCURY	0.024	06/16/09	58422	Y	ES-K04-090609
East Site	K5	ES-K05-090609	MERCURY	0.037	06/16/09	58422	Y	ES-K05-090609
East Site	K7	ES-K07-090924	MERCURY	0.063	10/07/09	61897	Y	ES-K07-090924
East Site	K7	ES-K07-091123	MERCURY	0.034	12/15/09	63628	Y	ES-K07-091123
East Site	L1	ES-L01-090609	MERCURY	0.018	06/18/09	58422	Y	ES-L01-090609
East Site	L2	ES-L02-090609	MERCURY	0.019	06/18/09	58422	Y	ES-L02-090609
East Site	L3	ES-L03-091104	MERCURY	0.024	11/19/09	63089	Y	ES-L03-091104
East Site	L4	ES-L04-091104	MERCURY	0.026	11/19/09	63089	Y	ES-L04-091104
East Site	L5	ES-L05-091104	MERCURY	0.019	11/19/09	63089	Y	ES-L05-091104
East Site	L6	ES-L06-091104	MERCURY	0.024	11/19/09	63089	Y	ES-L06-091104
East Site	M1	ES-M01-090610	MERCURY	0.03	06/24/09	58683	Y	ES-M01-090610
East Site	M2	ES-M02-090609	MERCURY	0.024	06/16/09	58422	Y	ES-M02-090609
East Site	M3	ES-M03-091022	MERCURY	0.022	11/03/09	62673	Y	ES-M03-091022
East Site	M3	ES-M03-091228	MERCURY	0.024	01/12/10	64100	Y	ES-M03-091228
East Site	M4	ES-M04-090609	MERCURY	0.028	06/16/09	58422	Y	ES-M04-090609
East Site	M5	ES-M05-090610	MERCURY	0.02	06/24/09	58683	Y	ES-M05-090610

MERCURY Results from 12/16/2010 database								
Site	grid	sample_location	chemical_name	result_value	analysis _date	batch_id	detect _flag	sample_name
East Site	M6	ES-M06-091105	MERCURY	0.02	11/19/09	63090	Y	ES-M06-091105
East Site	M7	ES-M07-091105	MERCURY	0.025	11/19/09	63090	Y	ES-M07-091105
East Site	M8	ES-M08-090924	MERCURY	0.037	10/07/09	61897	Y	ES-M08-090924
East Site	M8	ES-M08-091123	MERCURY	0.028	12/15/09	63628	Y	ES-M08-091123
East Site	M9	ES-M09-090605	MERCURY	0.018	06/18/09	58417	Y	ES-M09-090605
East Site	N2	ES-N02-090612	MERCURY	0.032	06/24/09	58683	Y	ES-N02-090612
East Site	N3	ES-N03-090611	MERCURY	0.032	06/24/09	58683	Y	ES-N03-090611
East Site	N4	ES-N04-090611	MERCURY	0.035	06/24/09	58683	Y	ES-N04-090611
East Site	N5	ES-N05-091105	MERCURY	0.014	11/19/09	63090	Y	ES-N05-091105
East Site	N6	ES-N06-090630	MERCURY	0.024	07/09/09	59278	Y	ES-N06-090630
East Site	N7	ES-N07-100225	MERCURY	0.02	03/05/10	65024	Y	ES-N07-100225
East Site	N8	ES-N08-090924	MERCURY	0.028	10/07/09	61897	Y	ES-N08-090924
East Site	N8	ES-N08-091124	MERCURY	0.019	12/15/09	63628	Y	ES-N08-091124
East Site	N9	ES-N09-090924	MERCURY	0.02	10/07/09	61897	Y	ES-N09-090924
East Site	N10	ES-N10-090604	MERCURY	0.02	06/18/09	58417	Y	ES-N10-090604
East Site	O3	ES-O03-090701	MERCURY	0.025	07/09/09	59278	Y	ES-O03-090701
East Site	O4	ES-O04-090629	MERCURY	0.03	07/09/09	59278	Y	ES-O04-090629
East Site	O5	ES-O05-090630	MERCURY	0.034	07/09/09	59278	Y	ES-O05-090630
East Site	O6	ES-O06-091105	MERCURY	0.025	11/19/09	63090	Y	ES-O06-091105
East Site	O7	ES-O07-100225	MERCURY	0.016	03/05/10	65024	Y	ES-O07-100225
East Site	O8	ES-O08-090710	MERCURY	0.022	07/31/09	60029	Y	ES-O08-090710
East Site	O8	ES-O08-100225	MERCURY	0.025	03/05/10	65024	Y	ES-O08-100225
East Site	O9	ES-O09-091014	MERCURY	0.024	10/27/09	62513	Y	ES-O09-091014
East Site	O9	ES-O09-092309	MERCURY	0.032	10/07/09	61897	Y	ES-O09-092309
East Site	O10	ES-O10-091014	MERCURY	0.039	10/27/09	62513	Y	ES-O10-091014
East Site	O10	ES-O10-091123	MERCURY	0.017	12/15/09	63628	Y	ES-O10-091123
East Site	O10	ES-O10-092309	MERCURY	0.024	10/07/09	61897	Y	ES-O10-092309
East Site	P4	ES-P04-090610	MERCURY	0.025	06/24/09	58683	Y	ES-P04-090610
East Site	P5	ES-P05-090701	MERCURY	0.02	07/09/09	59278	Y	ES-P05-090701
East Site	P6	ES-P06-090611	MERCURY	0.02	06/24/09	58683	Y	ES-P06-090611
East Site	P7	ES-P07-091022	MERCURY	0.015	11/03/09	62673	Y	ES-P07-091022
East Site	P8	ES-P08-090630	MERCURY	0.026	07/09/09	59278	Y	ES-P08-090630
East Site	P10	ES-P10-091014	MERCURY	0.017	10/27/09	62513	Y	ES-P10-091014
East Site	P10	ES-P10-092309	MERCURY	0.024	10/07/09	61897	Y	ES-P10-092309
East Site	P11	ES-P11-092309	MERCURY	0.016	10/07/09	61897	Y	ES-P11-092309
East Site	Q5	ES-Q05-091105	MERCURY	0.021	11/19/09	63090	Y	ES-Q05-091105
East Site	Q6	ES-Q06-091021	MERCURY	0.019	11/03/09	62673	Y	ES-Q06-091021
East Site	Q7	ES-Q07-091021	MERCURY	0.02	11/03/09	62673	Y	ES-Q07-091021
East Site	Q7	ES-Q07-091228	MERCURY	0.02	01/12/10	64100	Y	ES-Q07-091228
East Site	Q8	ES-Q08-091021	MERCURY	0.03	11/03/09	62673	Y	ES-Q08-091021
East Site	Q8	ES-Q08-091228	MERCURY	0.03	01/12/10	64100	Y	ES-Q08-091228
East Site	Q9	ES-Q09-090630	MERCURY	0.029	07/09/09	59278	Y	ES-Q09-090630
East Site	Q10	ES-Q10-091123	MERCURY	0.026	12/15/09	63628	Y	ES-Q10-091123
East Site	Q10	ES-Q10-092309	MERCURY	0.021	10/07/09	61897	Y	ES-Q10-092309
East Site	Q11	ES-Q11-090605	MERCURY	0.017	06/18/09	58417	Y	ES-Q11-090605
East Site	Q17	ES-Q17-090612	MERCURY	0.021	06/24/09	58683	Y	ES-Q17-090612
East Site	R5	ES-R05-091105	MERCURY	0.024	11/19/09	63090	Y	ES-R05-091105

MERCURY Results from 12/16/2010 database								
Site	grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	R6	ES-R06-090710	MERCURY	0.018	07/31/09	60029	Y	ES-R06-090710
East Site	R7	ES-R07-090710	MERCURY	0.022	07/31/09	60029	Y	ES-R07-090710
East Site	R7	ES-R07-090710	MERCURY	0.022	08/21/09	60622	Y	DUP-33
East Site	R8	ES-R08-091021	MERCURY	0.02	11/03/09	62673	Y	ES-R08-091021
East Site	R8	ES-R08-091021	MERCURY	0.021	01/19/10	64214	Y	DUP-46
East Site	R9	ES-R09-090701	MERCURY	0.034	07/09/09	59278	Y	ES-R09-090701
East Site	R10	ES-R10-090707	MERCURY	0.023	07/31/09	60029	Y	ES-R10-090707
East Site	R11	ES-R11-090910	MERCURY	0.018	09/22/09	61503	Y	ES-R11-090910
East Site	R11	ES-R11-090910	MERCURY	0.02	11/19/09	63091	Y	DUP-38
East Site	R12	ES-R12-090605	MERCURY	0.024	06/18/09	58417	Y	ES-R12-090605
East Site	R16	ES-R16-090604	MERCURY	0.028	06/18/09	58417	Y	ES-R16-090604
East Site	R17	ES-R17-090605	MERCURY	0.022	06/18/09	58417	Y	ES-R17-090605
East Site	S5	ES-S05-090702	MERCURY	0.021	07/09/09	59278	Y	ES-S05-090702
East Site	S6	ES-S06-090702	MERCURY	0.025	07/09/09	59278	Y	ES-S06-090702
East Site	S7	ES-S07-090702	MERCURY	0.025	07/09/09	59278	Y	ES-S07-090702
East Site	S8	ES-S08-091015	MERCURY	0.023	10/27/09	62513	Y	ES-S08-091015
East Site	S9	ES-S09-090629	MERCURY	0.023	07/09/09	59278	Y	ES-S09-090629
East Site	S10	ES-S10-090629	MERCURY	0.023	07/09/09	59278	Y	ES-S10-090629
East Site	S11	ES-S11-090807	MERCURY	0.024	08/31/09	60856	Y	ES-S11-090807
East Site	S12	ES-S12-090605	MERCURY	0.019	06/18/09	58417	Y	ES-S12-090605
East Site	S13	ES-S13-090602	MERCURY	0.028	06/16/09	58422	Y	DUP-27
East Site	S13	ES-S13-090602	MERCURY	0.027	06/18/09	58417	Y	ES-S13-090602
East Site	S17	ES-S17-090910	MERCURY	0.021	09/22/09	61503	Y	ES-S17-090910
East Site	S17	ES-S17-090910	MERCURY	0.023	10/07/09	61897	Y	DUP-37
East Site	S18	ES-S18-090604	MERCURY	0.023	06/18/09	58417	Y	ES-S18-090604
East Site	S18	ES-S18-090604	MERCURY	0.027	06/24/09	58683	Y	DUP-29
None	None	ES-SB3-100901	MERCURY	0.02	09/15/10	70045	Y	ES-SB3-100901
None	None	ES-SB5-100902	MERCURY	0.017	09/15/10	70045	Y	ES-SB5-100902
None	None	ES-SB7-100901	MERCURY	0.019	09/15/10	70045	Y	ES-SB7-100901
None	None	ES-SBA9-100902	MERCURY	0.025	09/15/10	70045	Y	ES-SBA9-100902
None	None	ES-SBO07-100902	MERCURY	0.011	09/15/10	70045	Y	ES-SBO07-100902
East Site	T7	ES-T07-090706	MERCURY	0.024	07/31/09	60029	Y	ES-T07-090706
East Site	T8	ES-T08-090706	MERCURY	0.021	07/31/09	60029	Y	ES-T08-090706
East Site	T9	ES-T09-090706	MERCURY	0.023	07/31/09	60029	Y	ES-T09-090706
East Site	T10	ES-T10-091015	MERCURY	0.02	10/27/09	62513	Y	ES-T10-091015
East Site	T11	ES-T11-090701	MERCURY	0.022	07/09/09	59278	Y	ES-T11-090701
East Site	T12	ES-T12-090602	MERCURY	0.019	06/16/09	58417	Y	ES-T12-090602
East Site	T12	ES-T12-090602	MERCURY	0.018	06/18/09	58422	Y	DUP-26
East Site	T13	ES-T13-090602	MERCURY	0.025	06/16/09	58417	Y	ES-T13-090602
East Site	T14	ES-T14-090602	MERCURY	0.027	06/16/09	58417	Y	ES-T14-090602
East Site	U10	ES-U10-090707	MERCURY	0.024	07/31/09	60029	Y	ES-U10-090707
East Site	U11	ES-U11-090708	MERCURY	0.02	07/31/09	60029	Y	ES-U11-090708
East Site	U13	ES-U13-090602	MERCURY	0.029	06/16/09	58417	Y	ES-U13-090602
East Site	U14	ES-U14-090601	MERCURY	0.03	06/16/09	58417	Y	ES-U14-090601
East Site	U14	ES-U14-090601	MERCURY	0.031	06/18/09	58422	Y	DUP-25

MERCURY Results from 12/16/2010 database								
Site	grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
East Site	V11	ES-V11-090708	MERCURY	0.026	07/31/09	60029	Y	ES-V11-090708
East Site	V14	ES-V14-090602	MERCURY	0.034	06/16/09	58417	Y	ES-V14-090602
East Site	V14	ES-V14-090602	MERCURY	0.039	06/24/09	58683	Y	DUP-28
East Site	W12	ES-W12-090707	MERCURY	0.02	07/31/09	60029	Y	ES-W12-090707
West Site	A4	WS-A04-090727	MERCURY	0.029	08/12/09	60322	Y	WS-A04-090727
West Site	B2	WS-B02-100120	MERCURY	0.019	01/28/10	64416	Y	WS-B02-100120
West Site	B4	WS-B04-090727	MERCURY	0.017	08/12/09	60322	Y	WS-B04-090727
West Site	B5	WS-B05-090730	MERCURY	0.018	08/12/09	60322	Y	WS-B05-090730
West Site	C1	WS-C01-090709	MERCURY	0.04	07/31/09	60029	Y	WS-C01-090709
West Site	C1	WS-C01-090709	MERCURY	0.04	08/12/09	60322	Y	DUP-32
West Site	C2	WS-C02-090730	MERCURY	0.065	08/12/09	60322	Y	WS-C02-090730
West Site	C2	WS-C02-100120	MERCURY	0.027	01/28/10	64416	Y	WS-C02-100120
West Site	C3	WS-C03-090730	MERCURY	0.031	08/12/09	60322	Y	WS-C03-090730
West Site	C4	WS-C04-090814	MERCURY	0.016	08/31/09	60857	Y	WS-C04-090814
West Site	C5	WS-C05-100112	MERCURY	0.018	01/28/10	64415	Y	WS-C05-100112
West Site	C6	WS-C06-091013	MERCURY	0.024	10/27/09	62513	Y	WS-C06-091013
West Site	D1	WS-D01-090709	MERCURY	0.19	07/31/09	60029	Y	WS-D01-090709
West Site	D2	WS-D02-090730	MERCURY	0.52	08/13/09	60322	Y	WS-D02-090730
West Site	D3	WS-D03-090727	MERCURY	0.017	08/12/09	60322	Y	WS-D03-090727
West Site	D3	WS-D03-090727	MERCURY	0.016	08/21/09	60622	Y	DUP-34
West Site	D4	WS-D04-090811	MERCURY	0.039	08/31/09	60856	Y	WS-D04-090811
West Site	D4	WS-D04-091230	MERCURY	0.025	01/12/10	64100	Y	WS-D04-091230
West Site	D5	WS-D05-100111	MERCURY	0.021	01/28/10	64415	Y	WS-D05-100111
West Site	D6	WS-D06-091013	MERCURY	0.023	10/27/09	62513	Y	WS-D06-091013
West Site	D7	WS-D07-091013	MERCURY	0.023	10/27/09	62513	Y	WS-D07-091013
West Site	E1	WS-E01-090709	MERCURY	0.033	07/31/09	60029	Y	WS-E01-090709
West Site	E2	WS-E02-100115	MERCURY	0.027	01/28/10	64416	Y	WS-E02-100115
West Site	E3	WS-E03-090803	MERCURY	0.012	08/21/09	60622	Y	WS-E03-090803
West Site	E4	WS-E04-091230	MERCURY	0.014	01/12/10	64100	Y	WS-E04-091230
West Site	E5	WS-E05-100111	MERCURY	0.027	01/28/10	64415	Y	WS-E05-100111
West Site	E6	WS-E06-091228	MERCURY	0.017	01/12/10	64100	Y	WS-E06-091228
West Site	E7	WS-E07-091228	MERCURY	0.032	01/12/10	64100	Y	WS-E07-091228
West Site	E8	WS-E08-091228	MERCURY	0.017	01/12/10	64100	Y	WS-E08-091228
West Site	F1	WS-F01-100115	MERCURY	0.028	01/28/10	64416	Y	WS-F01-100115
West Site	F2	WS-F02-100115	MERCURY	0.025	01/28/10	64416	Y	WS-F02-100115
West Site	F3	WS-F03-100115	MERCURY	0.016	01/28/10	64416	Y	WS-F03-100115
West Site	F4	WS-F04-091230	MERCURY	0.019	01/12/10	64100	Y	WS-F04-091230
West Site	F5	WS-F05-090811	MERCURY	0.022	08/31/09	60856	Y	WS-F05-090811
West Site	F5	WS-F05-100111	MERCURY	0.018	01/28/10	64415	Y	WS-F05-100111
West Site	F6	WS-F06-091228	MERCURY	0.02	01/12/10	64100	Y	WS-F06-091228
West Site	F7	WS-F07-090728	MERCURY	0.043	08/12/09	60322	Y	WS-F07-090728
West Site	F8	WS-F08-090728	MERCURY	0.076	08/12/09	60322	Y	WS-F08-090728
West Site	G1	WS-G01-100113	MERCURY	0.024	01/28/10	64415	Y	WS-G01-100113
West Site	G1	WS-G01-100223	MERCURY	0.021	03/05/10	65024	Y	WS-G01-100223
West Site	G2	WS-G02-100113	MERCURY	0.02	01/28/10	64415	Y	WS-G02-100113

MERCURY Results from 12/16/2010 database								
Site	grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	G3	WS-G03-090803	MERCURY	0.013	08/21/09	60622	Y	WS-G03-090803
West Site	G4	WS-G04-090813	MERCURY	0.013	08/31/09	60857	Y	WS-G04-090813
West Site	G5	WS-G05-100108	MERCURY	0.021	01/19/10	64214	Y	WS-G05-100108
West Site	G5	WS-G05-100223	MERCURY	0.021	03/05/10	65024	Y	WS-G05-100223
West Site	G6	WS-G06-090811	MERCURY	0.023	08/31/09	60856	Y	WS-G06-090811
West Site	G6	WS-G06-100107	MERCURY	0.017	01/19/10	64214	Y	WS-G06-100107
West Site	G7	WS-G07-100105	MERCURY	0.02	01/19/10	64214	Y	WS-G07-100105
West Site	H1	WS-H01-090728	MERCURY	0.047	08/12/09	60322	Y	WS-H01-090728
West Site	H1	WS-H01-090728	MERCURY	0.04	08/31/09	60857	Y	DUP-36
West Site	H2	WS-H02-100113	MERCURY	0.021	01/28/10	64415	Y	WS-H02-100113
West Site	H3	WS-H03-090811	MERCURY	0.013	08/31/09	60856	Y	WS-H03-090811
West Site	H4	WS-H04-090813	MERCURY	0.016	08/31/09	60857	Y	WS-H04-090813
West Site	H5	WS-H05-100107	MERCURY	0.019	01/19/10	64214	Y	WS-H05-100107
West Site	H6	WS-H06-090803	MERCURY	0.041	08/21/09	60622	Y	WS-H06-090803
West Site	I1	WS-I01-091013	MERCURY	0.047	10/27/09	62513	Y	WS-I01-091013
West Site	I2	WS-I02-091014	MERCURY	0.024	10/27/09	62513	Y	WS-I02-091014
West Site	I2	WS-I02-100113	MERCURY	0.019	01/28/10	64415	Y	WS-I02-100113
West Site	I3	WS-I03-090810	MERCURY	0.017	08/31/09	60856	Y	WS-I03-090810
West Site	I3	WS-I03-091013	MERCURY	0.015	10/27/09	62513	Y	WS-I03-091013
West Site	I3	WS-I03-100113	MERCURY	0.014	01/28/10	64415	Y	WS-I03-100113
West Site	I4	WS-I04-090806	MERCURY	0.015	08/31/09	60856	Y	WS-I04-090806
West Site	I4	WS-I04-100106	MERCURY	0.016	01/19/10	64214	Y	WS-I04-100106
West Site	I5	WS-I05-091013	MERCURY	0.047	10/27/09	62513	Y	WS-I05-091013
West Site	I5	WS-I05-100107	MERCURY	0.019	01/19/10	64214	Y	WS-I05-100107
West Site	I6	WS-I06-100105	MERCURY	0.027	01/19/10	64214	Y	WS-I06-100105
West Site	J1	WS-J01-091013	MERCURY	0.073	10/27/09	62513	Y	WS-J01-091013
West Site	J1	WS-J01-100112	MERCURY	0.022	01/28/10	64415	Y	WS-J01-100112
West Site	J2	WS-J02-100112	MERCURY	0.025	01/28/10	64415	Y	WS-J02-100112
West Site	J3	WS-J03-090807	MERCURY	0.046	08/31/09	60856	Y	WS-J03-090807
West Site	J4	WS-J04-100106	MERCURY	0.026	01/19/10	64214	Y	WS-J04-100106
West Site	K1	WS-K01-091013	MERCURY	0.077	10/27/09	62513	Y	WS-K01-091013
West Site	K2	WS-K02-090727	MERCURY	0.07	08/12/09	60322	Y	WS-K02-090727
West Site	K2	WS-K02-090727	MERCURY	0.068	08/31/09	60856	Y	DUP-35
West Site	K3	WS-K03-090727	MERCURY	0.092	08/12/09	60322	Y	WS-K03-090727
West Site	K4	WS-K04-100106	MERCURY	0.025	01/19/10	64214	Y	WS-K04-100106
West Site	K5	WS-K05-090812	MERCURY	0.047	08/31/09	60856	Y	WS-K05-090812
West Site	L1	WS-L01-090728	MERCURY	0.085	08/12/09	60322	Y	WS-L01-090728
West Site	L2	WS-L02-090805	MERCURY	0.065	08/21/09	60622	Y	WS-L02-090805
West Site	L3	WS-L03-090805	MERCURY	0.058	08/21/09	60622	Y	WS-L03-090805
West Site	L4	WS-L04-090728	MERCURY	0.031	08/12/09	60322	Y	WS-L04-090728
West Site	M1	WS-M01-090805	MERCURY	0.093	08/21/09	60622	Y	WS-M01-090805
West Site	M2	WS-M02-090812	MERCURY	0.08	08/31/09	60856	Y	WS-M02-090812
West Site	M3	WS-M03-091217	MERCURY	0.021	12/30/09	63929	Y	WS-M03-091217
West Site	M3	WS-M03-091217	MERCURY	0.022	03/05/10	65024	Y	DUP-48
West Site	M4	WS-M04-090812	MERCURY	0.071	08/31/09	60856	Y	WS-M04-090812

MERCURY Results from 12/16/2010 database								
Site	grid	sample_location	chemical_name	result_value	analysis_date	batch_id	detect_flag	sample_name
West Site	M4	WS-M04-091218	MERCURY	0.015	12/30/09	63929	Y	WS-M04-091218
West Site	M4	WS-M04-091218	MERCURY	0.022	01/12/10	64100	Y	DUP-44
West Site	N1	WS-N01-090804	MERCURY	0.063	08/21/09	60622	Y	WS-N01-090804
West Site	N2	WS-N02-090813	MERCURY	0.048	08/31/09	60857	Y	WS-N02-090813
West Site	N3	WS-N03-090812	MERCURY	0.07	08/31/09	60856	Y	WS-N03-090812
West Site	O1	WS-O01-090804	MERCURY	0.058	08/21/09	60622	Y	WS-O01-090804
West Site	O2	WS-O02-090813	MERCURY	0.054	08/31/09	60857	Y	WS-O02-090813

Table Mo-1:Molybdenum Data Quality Summary

Laboratory Performance Criteria	Criteria	Measured	Comment
Minimum LCS Recovery	greater than 80%	80%	
Minimum Matrix Spike Recovery	greater than 70%	75%	
Average LCS Recovery	N/A	98%	
Average Matrix Spike Recovery	N/A	90%	
Maximum LCS RPD	less than 20%	8%	
Maximum Laboratory Duplicate RPD	less than 20%	26%	
Average LCS RPD	N/A	2%	
Average Laboratory Duplicate RPD	N/A	6%	
Measurement Quality Objectives	**Critera**	**Measured**	
NPS CRM	No vendor supplied data	Minimum Recovery =	0.98 mg/kg
EQIS CRM	See Note 1		
CVS Split Analysis RPD	RPD less than 35%	Maximum RPD =	23.26 %
CRM Split Analysis RPD	RPD less than 35%	Maximum RPD =	13.08 %
Overall QC Indicator Measurements	**Criteria**	**Measured**	
NPS CRM "Made to" (Bias measure)	N/A	Average Recovery =	N/A %
NPS Replicate Test (Precision measure)	N/A	Standard Deviation =	0.45 mg/kg
Data Quality Relative to Remediation Goals			
Tier 1 Remediation Goal	14	mg/kg	
Tier 2 Remediation Goal	16	mg/kg	
QC Derived reliance Level	16.9	mg/kg See Note 2	

Comments: QC measurements for molybdenum complied with laboratory performance criteria and measurement quality objectives, except that the maximum laboratory duplicate RPD (26%) exceeded the laboratory performance criteria (20%). This indicates potentially qualified precision. However, the standard deviation of repeated tests on the same sample (0.45 mg/kg) is low relative to the estimated mean (3.43 mg/kg), indicating reasonably good precision. The reliance level (16.9 mg/kg) exceeds the Tier 2 RG (16 mg/kg), indicating the data quality is acceptable for the purpose of determining RG achievement. Based on the foregoing, as well as a review of all QC data, it is concluded that the molybdenum CVS measurements are of acceptable quality and may be used to determine RG achievement.

Note 1: The QAPP required CRMs have only 4 analytes from each analyte group. Molybdenum is not one of these analytes.

Note 2. The QC derived reliance level must be calculated differently for molybdenum because there is no vendor supplied "made to" concentration for the NPS CRM. The average MS spike recovery (90%) is used for the derived reliance level calculation to arrive at a value of 16.9 mg/kg.Derived reliance level is calculated as: (Tier 2 RG)(1.2)(Average Recovery)-(0.84)(Standard deviation) = (16)(1.2)(0.90)-(0.84)(0.45) = 16.9 mg/kg

Table Mo-2:Molybdenum - NPS CRMs				
Blind NPS CRM Results				
Sample	Result	Analysis Date	Batch	Detect
BOR Sample 1-BOR 56	1.1	5/1/09	57223	Y
BOR SAMPLE 6-BOR 81	1	5/1/09	57284	Y
BOR Sample 4-BOR 82	0.98	5/11/09	57543	Y
BOR 83	1.1	5/24/09	57792	Y
BOR Sample 3-BOR 58	1	5/24/09	57792	Y
BOR 84	1.3	5/28/09	57847	Y
BOR Sample 7-BOR 105	1.3	5/28/09	57847	Y
BOR 85	1.2	6/9/09	58135	Y
BOR Sample 8-BOR 106	1.3	6/9/09	58135	Y
BOR 86	1.2	6/10/09	58212	Y
BOR 108	1.3	6/20/09	58565	Y
BOR 87	2.3	6/20/09	58565	Y
BOR 109	1.3	6/29/09	58728	Y
BOR 110	1.2	7/13/09	59381	Y
BOR Sample 9-BOR 107	1.2	7/27/09	59757	Y
BOR 111	1.3	7/29/09	59889	Y

CRMs		Vendor Supplied Information
Mean	1.26	*"Made to"*
Median	1.20	
Standard Deviation	0.30	*Upper Acceptance Limit*
Sample Variance	0.09	
Kurtosis	10.72	
Skewness	2.98	*Lower Acceptance Limit*
Range	1.32	
Minimum	0.98	
Maximum	2.30	No vendor supplied information
Sum	20.08	
Count	16.00	
Largest(2)	1.30	
Smallest(2)	1.00	

Table Mo-3:Molybdenum NPS Replicate Tests on a Background Sample				
Results of Replicate Analyses of a Single Sample				
Sample	Result	Analysis Date	Batch	Detect
BOR 112	3.3	5/1/09	57223	Y
BOR 59	2.9	5/1/09	57284	Y
BOR 60	3	5/11/09	57543	Y
BOR 113	3.1	5/24/09	57792	Y
BOR 61	3.2	5/24/09	57792	Y
BOR 62	3.6	6/10/09	58212	Y
BOR 63	1.9	6/20/09	58565	Y
BOR 89	3.3	6/20/09	58565	Y
BOR 115	3.7	6/29/09	58728	Y
BOR 64	3.5	7/8/09	59163	Y
BOR 91	3.4	7/8/09	59163	Y
BOR 116	4	7/13/09	59381	Y
BOR 92	3.5	7/13/09	59381	Y
BOR 65	3.6	7/20/09	59621	Y
BOR 88	3.6	7/29/09	59889	Y
BOR-802	3.9	10/6/09	61790	Y
BOR 804	3.8	10/28/09	62499	Y
BOR-805	3.9	11/5/09	62754	Y
BOR 800	3.8	11/9/09	61414	Y
BOR-807	4.2	11/25/09	63215	Y
BOR-808	3.2	12/8/09	63405	Y
BOR 813	3.2	1/19/10	64128	Y
BOR 815	3.3	1/19/10	64206	Y
BOR-816	3.4	1/27/10	64333	Y
BOR-820	3.5	3/5/10	65036	Y

Replicate analyses of Single Sample	
Mean	3.43
Median	3.50
Standard Deviation	0.45
Sample Variance	0.21
Kurtosis	4.48
Skewness	-1.42
Range	2.30
Minimum	1.90
Maximum	4.20
Sum	85.80
Count	25.00
Largest(2)	4.00
Smallest(2)	2.90

Table Mo-4:Molybdenum NPS and EQIS Duplicates							
Sample	Result	Analysis Date	Batch	Split	Result	Analysis Date	RPD
BOR 503	3.8	5/1/09	57284	ES-T11-080530	4.8	6/10/2009	23
BOR 506	3.1	5/11/09	57543	ES-S10-080523	3.5	6/10/2009	12
BOR 504	3.8	5/24/09	57792	ES-M05-080527	3.9	5/28/2009	3
BOR 507	4.9	6/9/09	58135	ES-O09-080610			
BOR 508	4.5	6/20/09	58565	ES-Q11-080606	4	5/11/2009	12
BOR 510	4.8	6/29/09	58728	OU-8HR-080605	3.9	5/1/2009	21
BOR 501	5.4	7/8/09	59163	WS-L04-080508	5.7	7/8/2009	5
BOR 505	5	7/20/09	59621	WS-K03-080509	4.7	7/8/2009	6
BOR 502	4.1	7/27/09	59757	WS-F05-080612	4.9	8/18/2009	18
BOR 509	4.4	7/27/09	59757	WS-E06-080613	4.6	7/27/2009	4
BOR 500	4.7	7/29/09	59889	WS-F01-080429	4.7	6/20/2009	0
BOR-809	4.1	12/15/09	63529	ES-K03-091103	5	11/25/2009	20
BOR-810	4.2	12/15/09	63529	ES-P07-091022	4.9	11/5/2009	15
BOR-811	3.3	12/15/09	63529	ES-R08-091021	4.1	11/5/2009	22
BOR 814	3.9	1/19/10	64128	ES-J05-091124	3.9	12/15/2009	0
BOR-818	5.4	3/5/10	65036	WS-F05-100111	5.3	1/27/2010	2
BOR-822	4.5	3/5/10	65036	ES-Q08-091228	3.8	1/19/2010	17
DUP-11	3.4	5/1/09	57147	ES-J03-080513	4	6/20/2009	16
DUP-17	3.7	5/1/09	57284	ES-F01-080529	3.8	5/11/2009	3
DUP-15	3.6	5/11/09	57543	ES-J02-080527	3.6	5/24/2009	0
DUP-18	3.1	5/11/09	57543	ES-J04-080530	3.3	5/24/2009	6
DUP-12	3.6	5/24/09	57792	ES-P06-080515	3.5	6/9/2009	3
DUP-16	2.9	5/24/09	57792	ES-P04-080528	2.8	6/9/2009	4
DUP-19	3.2	5/28/09	57847	ES-K05-080605	3	5/28/2009	6
DUP-13	3.4	6/9/09	58135	ES-T08-080522	3.6	6/10/2009	6
DUP-14	3.5	6/10/09	58212	ES-T10-080523	3.5	6/10/2009	0
DUP-3	3.3	6/20/09	58565	WS-C01-080501	3.5	6/20/2009	6
DUP-4	4.7	6/20/09	58565	WS-G01-080501	4.6	6/29/2009	2
DUP-5	4.3	6/29/09	58728	WS-I01-080501	4.1	6/29/2009	5
DUP-6	4.9	6/29/09	58728	WS-J01-080505	4.9	6/29/2009	0
DUP-7	4.1	7/8/09	59163	WS-M01-080505	4.1	7/8/2009	0
DUP-9	5.7	7/8/09	59163	WS-L04-080508	5.7	7/8/2009	0
DUP-1	5.6	7/13/09	59381	WS-E02-080428	5.1	7/20/2009	9
DUP-2	4.5	7/13/09	59381	WS-D02-080429	4.5	7/20/2009	0
DUP-8	4.4	7/20/09	59621	WS-M03-080507	4.8	8/5/2009	9
DUP-10	4.1	7/27/09	59757	WS-K04-080513	4.2	7/8/2009	2
DUP-37	5.1	10/5/09	61790	ES-S17-090910	4.8	9/23/2009	6
DUP-38	5.2	10/28/09	62499	ES-R11-090910	4.8	11/9/2009	8
DUP-39	4.6	10/28/09	62499	ES-C01-090910	4.5	11/9/2009	2
DUP-40	4.9	11/5/09	62754	ES-A01-102109			
DUP-44	4.1	1/19/10	64128	WS-M04-091218	4.4	1/5/2010	7
DUP-45	4	1/19/10	64128	ES-J05-091124	3.9	12/15/2009	3
DUP-46	3.4	1/19/10	64206	ES-R08-091021	4.1	11/5/2009	19
DUP-47	4.5	1/27/10	64333	ES-K02-091103	4.8	11/25/2009	6
DUP-48	4.3	3/5/10	65036	WS-M03-091217	4.1	1/5/2010	5

Table Mo-4:Molybdenum NPS and EQIS Duplicates (continued)

RPD of Sample Splits	
Mean	7.264
Median	5.714
Standard Deviation	6.879
Sample Variance	47.321
Kurtosis	-0.264
Skewness	0.944
Range	23.256
Minimum	0.000
Maximum	23.256
Sum	312.364
Count	43.000
Largest(2)	21.622
Smallest(2)	0.000