

Sample Description: SL-065-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5B-SB-9.0-10.0

LLI Sample # SW 6178515
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL659 SDG#: DE053-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U 0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U 0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U 0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U 0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J 0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U 0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U 0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U 6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U 6.6	20		1
10138	Chrysene	218-01-9	0.80	J 0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U 0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U 6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U 6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J 6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U 0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U 0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U 0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U 0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U 0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U 0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U 0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U 6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U 0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U 0.73	1.8		1
Pesticides/PCBs	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.4	J 1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U 0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U 0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U 0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U 0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36	U 0.36	1.9		1
10225	PCB-1254	11097-69-1	3.9	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.1	J 0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U 0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U 0.36	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,400	5.43	21.6		1

*=This limit was used in the evaluation of the final result

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SL-065-SA5B-SB-9.0-10.0

LLI Sample # SW 6178515
LLI Group # 1228000
Account # 13013

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SL659 SDG#: DE053-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	0.960 U	0.960	5.39		1
01650	Calcium	7440-70-2	5,140	6.61	21.6		1
01654	Iron	7439-89-6	25,600	5.08	21.6		1
01656	Lithium	7439-93-2	34.9	0.24	2.2		1
01657	Magnesium	7439-95-4	5,920	2.74	10.8		1
06958	Manganese	7439-96-5	322	0.0841	0.539		1
10145	Phosphorus	7723-14-0	526	0.604	10.8		1
01662	Potassium	7440-09-7	3,200	19.4	53.9		1
01667	Sodium	7440-23-5	380	40.2	108		1
07968	Strontium	7440-24-6	23.1	0.0669	0.539		1
06969	Tin	7440-31-5	2.82 J	1.08	10.8		1
06970	Titanium	7440-32-6	1,440	0.410	1.08		1
10146	Zirconium	7440-67-7	1.59 J	0.906	5.39		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.595	0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.63	0.0654	0.436		2
06126	Barium	7440-39-3	104	0.118	0.436		2
06127	Beryllium	7440-41-7	0.675	0.0174	0.109		2
06128	Cadmium	7440-43-9	0.184	0.0392	0.109		2
06131	Chromium	7440-47-3	24.7	0.131	0.436		2
06132	Cobalt	7440-48-4	7.81	0.0218	0.109		2
06133	Copper	7440-50-8	11.7	0.0719	0.436		2
06135	Lead	7439-92-1	7.59	0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.713	0.0545	0.109		2
06139	Nickel	7440-02-0	14.4	0.109	0.436		2
06141	Selenium	7782-49-2	0.166 J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0320 J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.320	0.0327	0.109		2
06148	Vanadium	7440-62-2	54.6	0.0240	0.109		2
06149	Zinc	7440-66-6	87.1	0.610	3.27		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88 U	0.88	1.1		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 J	0.22	1.1		1

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LLI Sample # SW 6178515
LLI Group # 1228000
Account # 13013

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Submitted: 01/06/2011 09:00

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SL659 SDG#: DE053-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	272	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	9.79	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 22:44	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 15:47	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 04:30	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 09:49	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:33	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 09:49	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 09:49	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 09:49	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 09:49	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 09:49	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 09:49	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 09:49	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 09:49	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 09:49	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 09:49	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 09:49	Joanne M Gates	1

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SL659 SDG#: DE053-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 09:49	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 17:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 18:03	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11018243201A	01/21/2011 03:23	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

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Sample Description: SL-067-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SB-3.5-4.5

LLI Sample # SW 6178516
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL067 SDG#: DE053-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3 U	6.3	7.6		0.86
06192	Benzene	71-43-2	0.09 U	0.09	3.8		0.86
06192	Bromobenzene	108-86-1	0.12 U	0.12	3.8		0.86
06192	Bromochloromethane	74-97-5	0.31 U	0.31	3.8		0.86
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.8		0.86
06192	Bromoform	75-25-2	0.38 U	0.38	3.8		0.86
06192	Bromomethane	74-83-9	0.24 U	0.24	3.8		0.86
06192	2-Butanone	78-93-3	1.2 U	1.2	7.6		0.86
06192	n-Butylbenzene	104-51-8	0.11 U	0.11	3.8		0.86
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.8		0.86
06192	tert-Butylbenzene	98-06-6	0.15 U	0.15	3.8		0.86
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.8		0.86
06192	Chlorobenzene	108-90-7	0.10 U	0.10	3.8		0.86
06192	Chloroethane	75-00-3	0.12 U	0.12	3.8		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28 U	0.28	3.8		0.86
06192	Chloroform	67-66-3	0.11 U	0.11	3.8		0.86
06192	Chloromethane	74-87-3	0.31 U	0.31	3.8		0.86
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.8		0.86
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.8		0.86
06192	Chlorotrifluoroethene	79-38-9	0.47 U	0.47	4.7		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66 U	0.66	3.8		0.86
06192	Dibromochloromethane	124-48-1	0.19 U	0.19	3.8		0.86
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.8		0.86
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.8		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.8		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.11 U	0.11	3.8		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	3.8		0.86
06192	Dichlorodifluoromethane	75-71-8	0.11 U	0.11	3.8		0.86
06192	1,1-Dichloroethane	75-34-3	0.09 U	0.09	3.8		0.86
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.8		0.86
06192	1,1-Dichloroethene	75-35-4	0.37 U	0.37	3.8		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.18 U	0.18	3.8		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.11 U	0.11	3.8		0.86
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.8		0.86
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.8		0.86
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.8		0.86
06192	1,1-Dichloropropene	563-58-6	0.12 U	0.12	3.8		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.15 U	0.15	3.8		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.8		0.86
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.8		0.86
06192	Freon 113	76-13-1	0.10 U	0.10	3.8		0.86
06192	Freon 133a	75-88-7	0.47 U	0.47	4.7		0.86
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.8		0.86
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.6		0.86
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.8		0.86
06192	p-Isopropyltoluene	99-87-6	0.10 U	0.10	3.8		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20 U	0.20	3.8		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.37 U	0.37	7.6		0.86
06192	Methylene Chloride	75-09-2	0.23 U	0.23	3.8		0.86
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.8		0.86

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SL-067-SA5B-SB-3.5-4.5

LLI Sample # SW 6178516
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL067 SDG#: DE053-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.09 U	0.09	3.8		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10 U	0.10	3.8		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22 U	0.22	3.8		0.86
06192	Tetrachloroethene	127-18-4	0.19 U	0.19	3.8		0.86
06192	Toluene	108-88-3	0.08 U	0.08	3.8		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13	3.8		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.17 U	0.17	3.8		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.19 U	0.19	3.8		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.8		0.86
06192	Trichloroethene	79-01-6	0.14 U	0.14	3.8		0.86
06192	Trichlorofluoromethane	75-69-4	0.27 U	0.27	3.8		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.31 U	0.31	3.8		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.38 U	0.38	3.8		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.09 U	0.09	3.8		0.86
06192	Vinyl Chloride	75-01-4	0.19 U	0.19	3.8		0.86
06192	m+p-Xylene	179601-23-1	0.16 U	0.16	3.8		0.86
06192	o-Xylene	95-47-6	0.16 U	0.16	3.8		0.86
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.8 U	4.8	14		21.82
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180 U	180	550		1
04688	Benzidine	92-87-5	1,300 U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180 U	180	550		1
04688	Benzyl alcohol	100-51-6	180 U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18 U	18	180		1
04688	Carbazole	86-74-8	18 U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37 U	37	180		1
04688	4-Chloroaniline	106-47-8	73 U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18 U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18 U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18 U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18 U	18	180		1
04688	2-Chlorophenol	95-57-8	18 U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37 U	37	180		1
04688	Dibenzofuran	132-64-9	18 U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18 U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18 U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18 U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18 U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37 U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37 U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180 U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	730 U	730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37 U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18 U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18 U	18	180		1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-067-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SB-3.5-4.5

LLI Sample # SW 6178516
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL067 SDG#: DE053-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U 73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	550		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	37	U 37	180		1
04688	4-Methylphenol	106-44-5	37	U 37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	37	U 37	180		1
04688	4-Nitroaniline	100-01-6	73	U 73	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	550		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U 0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U 0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U 0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U 0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U 0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U 0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U 0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U 6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U 6.6	20		1
10138	Chrysene	218-01-9	0.37	U 0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U 0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U 6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U 6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U 6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U 0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U 0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U 0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U 0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U 0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U 0.73	1.8		1

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SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SB-3.5-4.5

LLI Sample # SW 6178516
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:26

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Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL067 SDG#: DE053-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73 U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73 U	0.73	1.8		1
Pesticides/PCBs SW-846 8082							
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36 U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals SW-846 6010B							
01643	Aluminum	7429-90-5	21,000	5.47	21.8		1
07914	Boron	7440-42-8	0.968 U	0.968	5.44		1
01650	Calcium	7440-70-2	2,810	6.67	21.8		1
01654	Iron	7439-89-6	22,600	5.12	21.8		1
01656	Lithium	7439-93-2	24.8	0.24	2.2		1
01657	Magnesium	7439-95-4	4,670	2.76	10.9		1
06958	Manganese	7439-96-5	606	0.0849	0.544		1
10145	Phosphorus	7723-14-0	499	0.609	10.9		1
01662	Potassium	7440-09-7	2,980	19.6	54.4		1
01667	Sodium	7440-23-5	238	40.6	109		1
07968	Strontium	7440-24-6	19.8	0.0675	0.544		1
06969	Tin	7440-31-5	2.97 J	1.09	10.9		1
06970	Titanium	7440-32-6	1,140	0.413	1.09		1
10146	Zirconium	7440-67-7	2.17 J	0.914	5.44		1
SW-846 6020							
06124	Antimony	7440-36-0	0.200 J	0.0634	0.211		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.18	0.0634	0.423		2
06126	Barium	7440-39-3	111	0.114	0.423		2
06127	Beryllium	7440-41-7	0.873	0.0169	0.106		2
06128	Cadmium	7440-43-9	0.0977 J	0.0380	0.106		2
06131	Chromium	7440-47-3	29.4	0.127	0.423		2
06132	Cobalt	7440-48-4	9.40	0.0211	0.106		2
06133	Copper	7440-50-8	7.56	0.0697	0.423		2

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Sample Description: SL-067-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SB-3.5-4.5

LLI Sample # SW 6178516
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL067 SDG#: DE053-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	7.03	0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.720	0.0528	0.106		2
06139	Nickel	7440-02-0	13.0	0.106	0.423		2
06141	Selenium	7782-49-2	0.157 J	0.0423	0.423		2
06142	Silver	7440-22-4	0.0277 J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.357	0.0317	0.106		2
06148	Vanadium	7440-62-2	63.5	0.0232	0.106		2
06149	Zinc	7440-66-6	61.4	0.592	3.17		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0087 J	0.0030	0.106		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88 U	0.88	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29 J	0.22	1.1		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	549	10.0	10.0		1
		The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.69	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.0	0.50	0.50		1
		"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-067-SA5B-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SL-067-SA5B-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5B-SB-3.5-4.5

LLI Sample # SW 6178516
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 19:21	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 23:18	Sara E Johnson	21.82
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100723463	01/07/2011 13:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201100723463	01/07/2011 14:06	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201100723463	01/07/2011 14:06	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100723463	01/07/2011 13:09	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 23:19	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 16:20	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 04:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:37	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 09:53	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2

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SL-067-SA5B-SB-3.5-4.5

LLI Sample # SW 6178516
LLI Group # 1228000
Account # 13013

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SL067 SDG#: DE053-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 18:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 18:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 03:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-068-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5B-SB-3.0-4.0

LLI Sample # SW 6178517
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL068 SDG#: DE053-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.4 U	6.4	7.7		0.84
06192	Benzene	71-43-2	0.1 U	0.1	3.8		0.84
06192	Bromobenzene	108-86-1	0.12 U	0.12	3.8		0.84
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.8		0.84
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.8		0.84
06192	Bromoform	75-25-2	0.38 U	0.38	3.8		0.84
06192	Bromomethane	74-83-9	0.24 U	0.24	3.8		0.84
06192	2-Butanone	78-93-3	1.2 U	1.2	7.7		0.84
06192	n-Butylbenzene	104-51-8	0.11 U	0.11	3.8		0.84
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.8		0.84
06192	tert-Butylbenzene	98-06-6	0.15 U	0.15	3.8		0.84
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.8		0.84
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.8		0.84
06192	Chloroethane	75-00-3	0.12 U	0.12	3.8		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.8		0.84
06192	Chloroform	67-66-3	0.11 U	0.11	3.8		0.84
06192	Chloromethane	74-87-3	0.32 U	0.32	3.8		0.84
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.8		0.84
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.8		0.84
06192	Chlorotrifluoroethene	79-38-9	0.48 U	0.48	4.8		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67 U	0.67	3.8		0.84
06192	Dibromochloromethane	124-48-1	0.19 U	0.19	3.8		0.84
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.8		0.84
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.8		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.8		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11 U	0.11	3.8		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	3.8		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11 U	0.11	3.8		0.84
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.8		0.84
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.8		0.84
06192	1,1-Dichloroethene	75-35-4	0.37 U	0.37	3.8		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18 U	0.18	3.8		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11 U	0.11	3.8		0.84
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.8		0.84
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.8		0.84
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.8		0.84
06192	1,1-Dichloropropene	563-58-6	0.12 U	0.12	3.8		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15 U	0.15	3.8		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.8		0.84
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.8		0.84
06192	Freon 113	76-13-1	0.11 U	0.11	3.8		0.84
06192	Freon 133a	75-88-7	0.48 U	0.48	4.8		0.84
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.8		0.84
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.7		0.84
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.8		0.84
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.8		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20 U	0.20	3.8		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.37 U	0.37	7.7		0.84
06192	Methylene Chloride	75-09-2	0.29 U	0.23	3.8		0.84
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.8		0.84

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Sample Description: SL-068-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5B-SB-3.0-4.0

LLI Sample # SW 6178517
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL068 SDG#: DE053-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1 U	0.1	3.8		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	3.8		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22 U	0.22	3.8		0.84
06192	Tetrachloroethene	127-18-4	0.19 U	0.19	3.8		0.84
06192	Toluene	108-88-3	0.08 U	0.08	3.8		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13	3.8		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17 U	0.17	3.8		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19 U	0.19	3.8		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.8		0.84
06192	Trichloroethene	79-01-6	0.14 U	0.14	3.8		0.84
06192	Trichlorofluoromethane	75-69-4	0.28 U	0.28	3.8		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	3.8		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.38 U	0.38	3.8		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	3.8		0.84
06192	Vinyl Chloride	75-01-4	0.19 U	0.19	3.8		0.84
06192	m+p-Xylene	179601-23-1	0.16 U	0.16	3.8		0.84
06192	o-Xylene	95-47-6	0.16 U	0.16	3.8		0.84
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3 U	5.3	16		23.19
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	570		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U 190	570		1
04688	Benzyl alcohol	100-51-6	190	U 190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190		1
04688	4-Chloroaniline	106-47-8	76	U 76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U 760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1

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Sample Description: SL-068-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5B-SB-3.0-4.0

LLI Sample # SW 6178517
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL068 SDG#: DE053-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U 76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	38	U 38	190		1
04688	4-Methylphenol	106-44-5	38	U 38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	38	U 38	190		1
04688	4-Nitroaniline	100-01-6	76	U 76	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	570		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U 0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U 0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U 0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U 0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U 0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U 0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U 6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U 6.8	20		1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U 0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U 6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U 6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U 6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U 0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U 0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U 0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U 0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U 0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U 0.76	1.9		1

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Sample Description: SL-068-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5B-SB-3.0-4.0

LLI Sample # SW 6178517
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL068 SDG#: DE053-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76 U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76 U	0.76	1.9		1
Pesticides/PCBs SW-846 8082							
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38 U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57 U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59 U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57 U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38 U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38 U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38 U	0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38 U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38 U	0.38	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals SW-846 6010B							
01643	Aluminum	7429-90-5	26,400	5.72	22.7		1
07914	Boron	7440-42-8	1.01 U	1.01	5.68		1
01650	Calcium	7440-70-2	5,920	6.97	22.7		1
01654	Iron	7439-89-6	38,900	26.8	114		5
01656	Lithium	7439-93-2	35.7	0.25	2.3		1
01657	Magnesium	7439-95-4	9,240	2.89	11.4		1
06958	Manganese	7439-96-5	266	0.0886	0.568		1
10145	Phosphorus	7723-14-0	696	0.636	11.4		1
01662	Potassium	7440-09-7	3,290	20.5	56.8		1
01667	Sodium	7440-23-5	230	42.4	114		1
07968	Strontium	7440-24-6	33.1	0.0705	0.568		1
06969	Tin	7440-31-5	3.38 J	1.14	11.4		1
06970	Titanium	7440-32-6	1,680	0.432	1.14		1
10146	Zirconium	7440-67-7	1.43 J	0.955	5.68		1
SW-846 6020							
06124	Antimony	7440-36-0	0.422	0.0675	0.225		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	17.2	0.0675	0.450		2
06126	Barium	7440-39-3	109	0.122	0.450		2
06127	Beryllium	7440-41-7	1.13	0.0180	0.113		2
06128	Cadmium	7440-43-9	0.0610 J	0.0405	0.113		2
06131	Chromium	7440-47-3	40.7	0.135	0.450		2
06132	Cobalt	7440-48-4	7.67	0.0225	0.113		2
06133	Copper	7440-50-8	24.5	0.0743	0.450		2

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Sample Description: SL-068-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5B-SB-3.0-4.0

LLI Sample # SW 6178517
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL068 SDG#: DE053-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	13.4	0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.659	0.0563	0.113		2
06139	Nickel	7440-02-0	17.6	0.113	0.450		2
06141	Selenium	7782-49-2	0.409 J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0207 J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.503	0.0338	0.113		2
06148	Vanadium	7440-62-2	81.6	0.0248	0.113		2
06149	Zinc	7440-66-6	96.9	0.630	3.38		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.113		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8	0.91	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.1		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35 J	0.23	1.1		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	542	10.0	10.0		1
		The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.95	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	12.0	0.50	0.50		1
		"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-068-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SL-068-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5B-SB-3.0-4.0

LLI Sample # SW 6178517
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL068 SDG#: DE053-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 16:21	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 20:41	Sara E Johnson	23.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:36	Larry E Bevins	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201100623454	01/06/2011 15:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201100623454	01/06/2011 15:00	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100623454	01/06/2011 14:36	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 23:54	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 16:53	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 05:07	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:41	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/15/2011 00:50	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 09:57	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:30	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-068-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5B-SB-3.0-4.0

LLI Sample # SW 6178517
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 13:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL068 SDG#: DE053-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 18:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 18:49	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 03:54	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-069-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL069 SDG#: DE053-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0 U	7.0	8.4		0.98
06192	Benzene	71-43-2	0.11 U	0.11	4.2		0.98
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.2		0.98
06192	Bromochloromethane	74-97-5	0.35 U	0.35	4.2		0.98
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.2		0.98
06192	Bromoform	75-25-2	0.42 U	0.42	4.2		0.98
06192	Bromomethane	74-83-9	0.26 U	0.26	4.2		0.98
06192	2-Butanone	78-93-3	1.3 U	1.3	8.4		0.98
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.2		0.98
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.2		0.98
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.2		0.98
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.2		0.98
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.2		0.98
06192	Chloroethane	75-00-3	0.14 U	0.14	4.2		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32 U	0.32	4.2		0.98
06192	Chloroform	67-66-3	0.13 U	0.13	4.2		0.98
06192	Chloromethane	74-87-3	0.35 U	0.35	4.2		0.98
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.2		0.98
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.2		0.98
06192	Chlorotrifluoroethene	79-38-9	0.53 U	0.53	5.3		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74 U	0.74	4.2		0.98
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.2		0.98
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.2		0.98
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.2		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.2		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.2		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.2		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.2		0.98
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.2		0.98
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.2		0.98
06192	1,1-Dichloroethene	75-35-4	0.41 U	0.41	4.2		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.2		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.2		0.98
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.2		0.98
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.2		0.98
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.2		0.98
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.2		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.2		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.2		0.98
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.2		0.98
06192	Freon 113	76-13-1	0.12 U	0.12	4.2		0.98
06192	Freon 133a	75-88-7	0.53 U	0.53	5.3		0.98
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.2		0.98
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.4		0.98
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.2		0.98
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.2		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.2		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.41 U	0.41	8.4		0.98
06192	Methylene Chloride	75-09-2	0.32 U	0.25	4.2		0.98
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.2		0.98

*=This limit was used in the evaluation of the final result

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Sample Description: SL-069-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL069 SDG#: DE053-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.2		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.2		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.2		0.98
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.2		0.98
06192	Toluene	108-88-3	0.08 U	0.08	4.2		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.2		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.2		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.2		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.2		0.98
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.2		0.98
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31	4.2		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35 U	0.35	4.2		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.42 U	0.42	4.2		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.2		0.98
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.2		0.98
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.2		0.98
06192	o-Xylene	95-47-6	0.18 U	0.18	4.2		0.98
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.2 U	5.2	16		24.37
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	17.9 U	17.9	35.8		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	540		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U 180	540		1
04688	Benzyl alcohol	100-51-6	180	U 180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180		1
04688	4-Chloroaniline	106-47-8	72	U 72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U 720	2,200		1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-069-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL069 SDG#: DE053-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U 72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	72	U 72	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	540		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U 0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U 0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U 0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U 0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U 0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U 0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	19		1
10138	Chrysene	218-01-9	0.36	U 0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U 0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U 6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U 6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U 6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U 0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U 0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U 0.72	1.8		1

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Sample Description: SL-069-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL069 SDG#: DE053-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.72 U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72 U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72 U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72 U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72 U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72 U	0.72	1.8		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1		23.02
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65 U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43 U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86 U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86 U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43 U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43 U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43 U	43	130	10000000	1
10132	HMX	2691-41-0	110 U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43 U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860 U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86 U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110 U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86 U	86	130	10000000	1
10132	PETN	78-11-5	860 U	860	2,600	10000000	1
10132	RDX	121-82-4	54 U	54	130	10000000	1
10132	Tetryl	479-45-8	66 U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43 U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43 U	43	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
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SL069 SDG#: DE053-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
	SW-846 8315A		ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	650 U	650	1,600		1
Pesticides/PCBs							
	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35 U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.54 U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56 U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54 U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.35 U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35 U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35 U	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35 U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35 U	0.35	1.8		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43 U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43 U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.46 J	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	3.1	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43 U	0.43	1.3		1
GC Miscellaneous							
	SW-846 8015B		ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110 U	110	540		1
10501	Isopropanol	67-63-0	110 U	110	540		1
10501	Methanol	67-56-1	110 U	110	540		1
GC Miscellaneous							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.4 U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4 U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4 U	5.4	13		1
The LCS surrogate recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction.							
The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Terphenyls							
	SW-846 8015B		mg/kg	mg/kg	mg/kg	mg/kg	

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Sample Description: SL-069-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

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Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL069 SDG#: DE053-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6 U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6 U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6 U	1.6	3.8		1
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,300	5.41	21.5		1
07914	Boron	7440-42-8	0.957 U	0.957	5.38		1
01650	Calcium	7440-70-2	2,410	6.59	21.5		1
01654	Iron	7439-89-6	21,900	5.06	21.5		1
01656	Lithium	7439-93-2	18.4	0.24	2.2		1
01657	Magnesium	7439-95-4	4,600	2.73	10.8		1
06958	Manganese	7439-96-5	192	0.0839	0.538		1
10145	Phosphorus	7723-14-0	423	0.602	10.8		1
01662	Potassium	7440-09-7	3,640	19.4	53.8		1
01667	Sodium	7440-23-5	244	40.1	108		1
07968	Strontium	7440-24-6	16.1	0.0667	0.538		1
06969	Tin	7440-31-5	2.60 J	1.08	10.8		1
06970	Titanium	7440-32-6	1,330	0.409	1.08		1
10146	Zirconium	7440-67-7	1.12 J	0.903	5.38		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.128 J	0.0620	0.207		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.68	0.0620	0.414		2
06126	Barium	7440-39-3	78.8	0.112	0.414		2
06127	Beryllium	7440-41-7	0.578	0.0165	0.103		2
06128	Cadmium	7440-43-9	0.0526 J	0.0372	0.103		2
06131	Chromium	7440-47-3	18.2	0.124	0.414		2
06132	Cobalt	7440-48-4	4.96	0.0207	0.103		2
06133	Copper	7440-50-8	6.34	0.0682	0.414		2
06135	Lead	7439-92-1	4.63	0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.377	0.0517	0.103		2
06139	Nickel	7440-02-0	8.68	0.103	0.414		2
06141	Selenium	7782-49-2	0.186 J	0.0414	0.414		2
06142	Silver	7440-22-4	0.0124 U	0.0124	0.103		2
06145	Thallium	7440-28-0	0.299	0.0310	0.103		2
06148	Vanadium	7440-62-2	44.1	0.0227	0.103		2
06149	Zinc	7440-66-6	59.4	0.579	3.10		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.106		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.9	0.86	1.6		1

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Sample Description: SL-069-SA5B-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL069 SDG#: DE053-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 314.0							
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	ug/kg	ug/kg	ug/kg	1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	mg/kg	mg/kg	mg/kg	1
SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.19 U	mg/kg	mg/kg	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	523	mV	mV	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	6.61	Std. Units	Std. Units	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	7.0	%	%	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-069-SA5B-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 16:44	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 21:01	Sara E Johnson	24.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:40	Larry E Bevins	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201100623454	01/06/2011 15:00	Larry E Bevins	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201100623454	01/06/2011 15:00	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100623454	01/06/2011 14:40	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11011SLB026	01/20/2011 09:08	Timothy J Trees	1

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SSFL Area IV Collocated Soil Sampling
SL-069-SA5B-SB-3.0-4.0

LLI Sample # SW 6178518
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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/21/2011 00:29	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/15/2011 11:38	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	11011SLB026	01/12/2011 10:55	Heidi L Ortenzi	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11010A34A	01/10/2011 14:07	Marie D John	23.02
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:39	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110110003A	01/14/2011 05:49	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110100020A	01/13/2011 18:11	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 05:26	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110100020A	01/11/2011 08:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110110003A	01/12/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110130009A	01/15/2011 11:24	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110060008A	01/06/2011 16:55	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110180028A	01/18/2011 22:20	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110100011A	01/14/2011 09:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110130009A	01/13/2011 14:10	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	110100011A	01/10/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110180028A	01/18/2011 19:10	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110060008A	01/06/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:44	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:01	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2

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LLI Sample # SW 6178518
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SL069 SDG#: DE053-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 13:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11017017202B	01/19/2011 13:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 19:12	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11018243201A	01/21/2011 04:00	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11014102201A	01/14/2011 18:57	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11014102201A	01/14/2011 09:35	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-070-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL070 SDG#: DE053-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6 U	6.6	7.9		0.92
06192	Benzene	71-43-2	0.1 U	0.1	3.9		0.92
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9		0.92
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9		0.92
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9		0.92
06192	Bromoform	75-25-2	0.39 U	0.39	3.9		0.92
06192	Bromomethane	74-83-9	0.25 U	0.25	3.9		0.92
06192	2-Butanone	78-93-3	1.2 U	1.2	7.9		0.92
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9		0.92
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9		0.92
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9		0.92
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	3.9		0.92
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9		0.92
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.9		0.92
06192	Chloroform	67-66-3	0.12 U	0.12	3.9		0.92
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9		0.92
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	3.9		0.92
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	3.9		0.92
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.9		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69 U	0.69	3.9		0.92
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	3.9		0.92
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	3.9		0.92
06192	Dibromomethane	74-95-3	0.24 U	0.24	3.9		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9		0.92
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9		0.92
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	3.9		0.92
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	3.9		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9		0.92
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	3.9		0.92
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9		0.92
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	3.9		0.92
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	3.9		0.92
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9		0.92
06192	Freon 113	76-13-1	0.11 U	0.11	3.9		0.92
06192	Freon 133a	75-88-7	0.49 U	0.49	4.9		0.92
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	3.9		0.92
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.9		0.92
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9		0.92
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	3.9		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.9		0.92
06192	Methylene Chloride	75-09-2	0.29 U	0.24	3.9		0.92
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9		0.92

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Sample Description: SL-070-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL070 SDG#: DE053-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1 U	0.1	3.9		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	3.9		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	3.9		0.92
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	3.9		0.92
06192	Toluene	108-88-3	0.08 U	0.08	3.9		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	3.9		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	3.9		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	3.9		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.9		0.92
06192	Trichloroethene	79-01-6	0.15 U	0.15	3.9		0.92
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	3.9		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	3.9		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39	3.9		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	3.9		0.92
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	3.9		0.92
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	3.9		0.92
06192	o-Xylene	95-47-6	0.17 U	0.17	3.9		0.92
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.5 U	4.5	14		21.04
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	17.9 U	17.9	35.7		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180 U	180	540		1
04688	Benzidine	92-87-5	1,300 U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180 U	180	540		1
04688	Benzyl alcohol	100-51-6	180 U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18 U	18	180		1
04688	Carbazole	86-74-8	18 U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36 U	36	180		1
04688	4-Chloroaniline	106-47-8	71 U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18 U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18 U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18 U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18 U	18	180		1
04688	2-Chlorophenol	95-57-8	18 U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36 U	36	180		1
04688	Dibenzofuran	132-64-9	18 U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18 U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18 U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18 U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18 U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36 U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36 U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180 U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	710 U	710	2,100		1

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Sample Description: SL-070-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL070 SDG#: DE053-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U 71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	71	U 71	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	540		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U 0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U 0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U 0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	J 0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	J 0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U 0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U 6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U 6.4	19		1
10138	Chrysene	218-01-9	0.62	J 0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U 0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U 6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U 6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.1	J 6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U 0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U 0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U 0.71	1.8		1

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Sample Description: SL-070-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL070 SDG#: DE053-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.71 U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71 U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71 U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71 U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4 U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71 U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71 U	0.71	1.8		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1.0		23.72
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64 U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43 U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86 U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86 U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43 U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43 U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43 U	43	130	10000000	1
10132	HMX	2691-41-0	110 U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43 U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860 U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86 U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110 U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86 U	86	130	10000000	1
10132	PETN	78-11-5	860 U	860	2,600	10000000	1
10132	RDX	121-82-4	54 U	54	130	10000000	1
10132	Tetryl	479-45-8	66 U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43 U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43 U	43	130	10000000	1

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Sample Description: SL-070-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL070 SDG#: DE053-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
	SW-846 8315A		ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	640 U	640	1,600		1
Pesticides/PCBs							
	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35 U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.54 U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56 U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54 U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.35 U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35 U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35 U	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35 U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35 U	0.35	1.8		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43 U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.64 J	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	26	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	36	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43 U	0.43	1.3		1
GC Miscellaneous							
	SW-846 8015B		ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110 U	110	540		1
10501	Isopropanol	67-63-0	110 U	110	540		1
10501	Methanol	67-56-1	110 U	110	540		1
GC Miscellaneous							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.4 U	5.4	13		1
08283	Ethylene glycol	107-21-1	5.4 U	5.4	13		1
08283	Propylene glycol	57-55-6	5.4 U	5.4	13		1
The LCS surrogate recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction.							
Terphenyls							
	SW-846 8015B		mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6 U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6 U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6 U	1.6	3.8		1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-070-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL070 SDG#: DE053-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,900	5.34	21.2		1
07914	Boron	7440-42-8	0.944 U	0.944	5.31		1
01650	Calcium	7440-70-2	3,600	6.51	21.2		1
01654	Iron	7439-89-6	19,700	5.00	21.2		1
01656	Lithium	7439-93-2	25.4	0.23	2.1		1
01657	Magnesium	7439-95-4	4,770	2.70	10.6		1
06958	Manganese	7439-96-5	284	0.0828	0.531		1
10145	Phosphorus	7723-14-0	401	0.594	10.6		1
01662	Potassium	7440-09-7	2,630	19.1	53.1		1
01667	Sodium	7440-23-5	410	39.6	106		1
07968	Strontium	7440-24-6	17.9	0.0658	0.531		1
06969	Tin	7440-31-5	2.73 J	1.06	10.6		1
06970	Titanium	7440-32-6	1,290	0.403	1.06		1
10146	Zirconium	7440-67-7	1.63 J	0.891	5.31		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.254	0.0643	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.55	0.0643	0.429		2
06126	Barium	7440-39-3	112	0.116	0.429		2
06127	Beryllium	7440-41-7	0.601	0.0171	0.107		2
06128	Cadmium	7440-43-9	0.172	0.0386	0.107		2
06131	Chromium	7440-47-3	24.8	0.129	0.429		2
06132	Cobalt	7440-48-4	6.83	0.0214	0.107		2
06133	Copper	7440-50-8	10.0	0.0707	0.429		2
06135	Lead	7439-92-1	6.74	0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.582	0.0536	0.107		2
06139	Nickel	7440-02-0	14.3	0.107	0.429		2
06141	Selenium	7782-49-2	0.199 J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0147 J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.337	0.0322	0.107		2
06148	Vanadium	7440-62-2	51.8	0.0236	0.107		2
06149	Zinc	7440-66-6	73.1	0.600	3.22		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.97 J	0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5	0.86	1.6		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	26.3 J	9.6	32.2		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26 J	0.21	1.1		1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-070-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL070 SDG#: DE053-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.51	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	423	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	8.97	0.0100	0.0100	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-070-SA5B-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 17:06	Chelsea B Eastep	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 21:21	Sara E Johnson	21.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:43	Larry E Bevins	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201100623454	01/06/2011 15:00	Larry E Bevins	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201100623454	01/06/2011 15:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100623454	01/06/2011 14:44	Larry E Bevins	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11011SLB026	01/20/2011 09:24	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/21/2011 01:03	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/15/2011 12:10	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	11011SLB026	01/12/2011 10:55	Heidi L Ortenzi	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

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Sample Description: SL-070-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL070 SDG#: DE053-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11010A34A	01/10/2011 14:44	Marie D John	23.72
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:43	Larry E Bevins	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110110003A	01/14/2011 07:56	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110100020A	01/13/2011 18:30	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 05:44	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110100020A	01/11/2011 08:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110110003A	01/12/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110130009A	01/15/2011 11:49	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110060008A	01/06/2011 17:09	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110180028A	01/18/2011 20:39	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110100011A	01/14/2011 11:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	110130009A	01/13/2011 14:10	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	110100011A	01/10/2011 16:20	JoElla L Rice	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110180028A	01/18/2011 19:10	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110060008A	01/06/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:48	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:05	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:55	Choon Y Tian	2

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Sample Description: SL-070-SA5B-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5B-SB-2.5-3.5

LLI Sample # SW 6178519
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL070 SDG#: DE053-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 13:46	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11017017202B	01/19/2011 13:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 19:35	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 04:19	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11014102201A	01/14/2011 18:59	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11014102201A	01/14/2011 09:35	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011 19:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-124-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5C-SB-4.5-5.5

LLI Sample # SW 6178520
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

S1244 SDG#: DE053-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.3 J	7.9	9.4		1.04
06192	Benzene	71-43-2	0.12 U	0.12	4.7		1.04
06192	Bromobenzene	108-86-1	0.15 U	0.15	4.7		1.04
06192	Bromochloromethane	74-97-5	0.39 U	0.39	4.7		1.04
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.7		1.04
06192	Bromoform	75-25-2	0.47 U	0.47	4.7		1.04
06192	Bromomethane	74-83-9	0.29 U	0.29	4.7		1.04
06192	2-Butanone	78-93-3	1.4 U	1.4	9.4		1.04
06192	n-Butylbenzene	104-51-8	0.14 U	0.14	4.7		1.04
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.7		1.04
06192	tert-Butylbenzene	98-06-6	0.19 U	0.19	4.7		1.04
06192	Carbon Tetrachloride	56-23-5	0.16 U	0.16	4.7		1.04
06192	Chlorobenzene	108-90-7	0.13 U	0.13	4.7		1.04
06192	Chloroethane	75-00-3	0.15 U	0.15	4.7		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35 U	0.35	4.7		1.04
06192	Chloroform	67-66-3	0.14 U	0.14	4.7		1.04
06192	Chloromethane	74-87-3	0.39 U	0.39	4.7		1.04
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.7		1.04
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.7		1.04
06192	Chlorotrifluoroethene	79-38-9	0.59 U	0.59	5.9		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.82 U	0.82	4.7		1.04
06192	Dibromochloromethane	124-48-1	0.24 U	0.24	4.7		1.04
06192	1,2-Dibromoethane	106-93-4	0.20 U	0.20	4.7		1.04
06192	Dibromomethane	74-95-3	0.28 U	0.28	4.7		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.11 U	0.11	4.7		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.14 U	0.14	4.7		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.19 U	0.19	4.7		1.04
06192	Dichlorodifluoromethane	75-71-8	0.14 U	0.14	4.7		1.04
06192	1,1-Dichloroethane	75-34-3	0.12 U	0.12	4.7		1.04
06192	1,2-Dichloroethane	107-06-2	0.18 U	0.18	4.7		1.04
06192	1,1-Dichloroethene	75-35-4	0.46 U	0.46	4.7		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.22 U	0.22	4.7		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.14 U	0.14	4.7		1.04
06192	1,2-Dichloropropane	78-87-5	0.20 U	0.20	4.7		1.04
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.7		1.04
06192	2,2-Dichloropropane	594-20-7	0.20 U	0.20	4.7		1.04
06192	1,1-Dichloropropene	563-58-6	0.15 U	0.15	4.7		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.19 U	0.19	4.7		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	4.7		1.04
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.7		1.04
06192	Freon 113	76-13-1	0.13 U	0.13	4.7		1.04
06192	Freon 133a	75-88-7	0.59 U	0.59	5.9		1.04
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.7		1.04
06192	2-Hexanone	591-78-6	1.9 U	1.9	9.4		1.04
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.7		1.04
06192	p-Isopropyltoluene	99-87-6	0.13 U	0.13	4.7		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25 U	0.25	4.7		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.46 U	0.46	9.4		1.04
06192	Methylene Chloride	75-09-2	0.75 J	0.28	4.7		1.04
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.7		1.04

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-124-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5C-SB-4.5-5.5

LLI Sample # SW 6178520
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

S1244 SDG#: DE053-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.12 U	0.12	4.7		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13 U	0.13	4.7		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	4.7		1.04
06192	Tetrachloroethene	127-18-4	0.24 U	0.24	4.7		1.04
06192	Toluene	108-88-3	0.09 J	0.09	4.7		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	4.7		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.21 U	0.21	4.7		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	4.7		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.32 U	0.32	4.7		1.04
06192	Trichloroethene	79-01-6	0.18 U	0.18	4.7		1.04
06192	Trichlorofluoromethane	75-69-4	0.34 U	0.34	4.7		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.39 U	0.39	4.7		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.47 U	0.47	4.7		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.12 U	0.12	4.7		1.04
06192	Vinyl Chloride	75-01-4	0.24 U	0.24	4.7		1.04
06192	m+p-Xylene	179601-23-1	0.20 U	0.20	4.7		1.04
06192	o-Xylene	95-47-6	0.20 U	0.20	4.7		1.04
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.2 U	5.2	16		23.11
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	560		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U 190	560		1
04688	Benzyl alcohol	100-51-6	190	U 190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190		1
04688	4-Chloroaniline	106-47-8	75	U 75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U 750	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-124-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5C-SB-4.5-5.5

LLI Sample # SW 6178520
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

S1244 SDG#: DE053-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U 75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	38	U 38	190		1
04688	4-Methylphenol	106-44-5	38	U 38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	38	U 38	190		1
04688	4-Nitroaniline	100-01-6	75	U 75	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	560		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U 0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U 0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U 0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U 0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U 0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U 0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U 6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U 6.8	20		1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U 0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U 6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U 6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J 6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U 0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U 0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U 0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U 0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U 0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U 0.75	1.9		1

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Sample Description: SL-124-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5C-SB-4.5-5.5

LLI Sample # SW 6178520
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

S1244 SDG#: DE053-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	N-Nitrosodimethylamine	62-75-9	0.75 U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75 J	0.75	1.9		1
10138	Pyrene	129-00-0	0.75 U	0.75	1.9		1
Pesticides/PCBs SW-846 8082							
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.1 J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.59 U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9		1
10225	PCB-1254	11097-69-1	4.9	0.37	1.9		1
10225	PCB-1260	11096-82-5	2.7	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals SW-846 6010B							
01643	Aluminum	7429-90-5	31,900	5.61	22.3		1
07914	Boron	7440-42-8	1.06 J	0.992	5.57		1
01650	Calcium	7440-70-2	4,180	6.83	22.3		1
01654	Iron	7439-89-6	27,200	5.25	22.3		1
01656	Lithium	7439-93-2	34.6	0.25	2.2		1
01657	Magnesium	7439-95-4	4,650	2.83	11.1		1
06958	Manganese	7439-96-5	272	0.0870	0.557		1
10145	Phosphorus	7723-14-0	108	0.624	11.1		1
01662	Potassium	7440-09-7	1,930	20.1	55.7		1
01667	Sodium	7440-23-5	315	41.6	111		1
07968	Strontium	7440-24-6	39.7	0.0691	0.557		1
06969	Tin	7440-31-5	2.58 J	1.11	11.1		1
06970	Titanium	7440-32-6	1,230	0.424	1.11		1
10146	Zirconium	7440-67-7	2.96 J	0.937	5.57		1
SW-846 6020							
06124	Antimony	7440-36-0	0.185 J	0.0650	0.217		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.10	0.0650	0.433		2
06126	Barium	7440-39-3	153	0.117	0.433		2
06127	Beryllium	7440-41-7	1.03	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.140	0.0390	0.108		2
06131	Chromium	7440-47-3	32.1	0.130	0.433		2
06132	Cobalt	7440-48-4	7.75	0.0217	0.108		2
06133	Copper	7440-50-8	9.29	0.0715	0.433		2

*=This limit was used in the evaluation of the final result

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Sample Description: SL-124-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5C-SB-4.5-5.5

LLI Sample # SW 6178520
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

S1244 SDG#: DE053-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	9.57	0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.243	0.0541	0.108		2
06139	Nickel	7440-02-0	19.8	0.108	0.433		2
06141	Selenium	7782-49-2	0.0992 J	0.0433	0.433		2
06142	Silver	7440-22-4	0.105 J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.304	0.0325	0.108		2
06148	Vanadium	7440-62-2	71.2	0.0238	0.108		2
06149	Zinc	7440-66-6	87.8	0.606	3.25		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0127 J	0.0032	0.111		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3	0.90	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38 J	0.23	1.1		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	516	10.0	10.0		1
		The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.65	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50		1
		"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-124-SA5C-SB-5.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SL-124-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5C-SB-4.5-5.5

LLI Sample # SW 6178520
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

S1244 SDG#: DE053-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 17:29	Chelsea B Eastep	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 21:40	Sara E Johnson	23.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:46	Larry E Bevins	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201100623454	01/06/2011 15:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201100623454	01/06/2011 15:00	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100623454	01/06/2011 14:47	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/21/2011 01:38	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/15/2011 12:42	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 06:03	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:51	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:09	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:34	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-124-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5C-SB-4.5-5.5

LLI Sample # SW 6178520
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 14:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

S1244 SDG#: DE053-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 18:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 19:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 04:31	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-137-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5C-SB-4.5-5.5

LLI Sample # SW 6178521
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

S1374 SDG#: DE053-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8 U	7.8	9.3		1.03
06192	Benzene	71-43-2	0.12 U	0.12	4.7		1.03
06192	Bromobenzene	108-86-1	0.15 U	0.15	4.7		1.03
06192	Bromochloromethane	74-97-5	0.39 U	0.39	4.7		1.03
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.7		1.03
06192	Bromoform	75-25-2	0.47 U	0.47	4.7		1.03
06192	Bromomethane	74-83-9	0.29 U	0.29	4.7		1.03
06192	2-Butanone	78-93-3	1.4 U	1.4	9.3		1.03
06192	n-Butylbenzene	104-51-8	0.14 U	0.14	4.7		1.03
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.7		1.03
06192	tert-Butylbenzene	98-06-6	0.19 U	0.19	4.7		1.03
06192	Carbon Tetrachloride	56-23-5	0.16 U	0.16	4.7		1.03
06192	Chlorobenzene	108-90-7	0.13 U	0.13	4.7		1.03
06192	Chloroethane	75-00-3	0.15 U	0.15	4.7		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35 U	0.35	4.7		1.03
06192	Chloroform	67-66-3	0.14 U	0.14	4.7		1.03
06192	Chloromethane	74-87-3	0.39 U	0.39	4.7		1.03
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.7		1.03
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.7		1.03
06192	Chlorotrifluoroethene	79-38-9	0.58 U	0.58	5.8		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.82 U	0.82	4.7		1.03
06192	Dibromochloromethane	124-48-1	0.23 U	0.23	4.7		1.03
06192	1,2-Dibromoethane	106-93-4	0.20 U	0.20	4.7		1.03
06192	Dibromomethane	74-95-3	0.28 U	0.28	4.7		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.11 U	0.11	4.7		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.14 U	0.14	4.7		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.19 U	0.19	4.7		1.03
06192	Dichlorodifluoromethane	75-71-8	0.14 U	0.14	4.7		1.03
06192	1,1-Dichloroethane	75-34-3	0.12 U	0.12	4.7		1.03
06192	1,2-Dichloroethane	107-06-2	0.18 U	0.18	4.7		1.03
06192	1,1-Dichloroethene	75-35-4	0.46 U	0.46	4.7		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.22 U	0.22	4.7		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.14 U	0.14	4.7		1.03
06192	1,2-Dichloropropane	78-87-5	0.20 U	0.20	4.7		1.03
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.7		1.03
06192	2,2-Dichloropropane	594-20-7	0.20 U	0.20	4.7		1.03
06192	1,1-Dichloropropene	563-58-6	0.15 U	0.15	4.7		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.19 U	0.19	4.7		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	4.7		1.03
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.7		1.03
06192	Freon 113	76-13-1	0.13 U	0.13	4.7		1.03
06192	Freon 133a	75-88-7	0.58 U	0.58	5.8		1.03
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.7		1.03
06192	2-Hexanone	591-78-6	1.9 U	1.9	9.3		1.03
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.7		1.03
06192	p-Isopropyltoluene	99-87-6	0.13 U	0.13	4.7		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24 U	0.24	4.7		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.46 U	0.46	9.3		1.03
06192	Methylene Chloride	75-09-2	0.31 J	0.28	4.7		1.03
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.7		1.03

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-137-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5C-SB-4.5-5.5

LLI Sample # SW 6178521
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

S1374 SDG#: DE053-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.12 U	0.12	4.7		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13 U	0.13	4.7		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	4.7		1.03
06192	Tetrachloroethene	127-18-4	0.23 U	0.23	4.7		1.03
06192	Toluene	108-88-3	0.09 U	0.09	4.7		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	4.7		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.21 U	0.21	4.7		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.23 U	0.23	4.7		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.31 U	0.31	4.7		1.03
06192	Trichloroethene	79-01-6	0.18 U	0.18	4.7		1.03
06192	Trichlorofluoromethane	75-69-4	0.34 U	0.34	4.7		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.39 U	0.39	4.7		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.47 U	0.47	4.7		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.12 U	0.12	4.7		1.03
06192	Vinyl Chloride	75-01-4	0.23 U	0.23	4.7		1.03
06192	m+p-Xylene	179601-23-1	0.20 U	0.20	4.7		1.03
06192	o-Xylene	95-47-6	0.20 U	0.20	4.7		1.03
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.4 U	5.4	16		23.99
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	570		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U 190	570		1
04688	Benzyl alcohol	100-51-6	190	U 190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190		1
04688	4-Chloroaniline	106-47-8	76	U 76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U 760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-137-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5C-SB-4.5-5.5

LLI Sample # SW 6178521
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

S1374 SDG#: DE053-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U 76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	38	U 38	190		1
04688	4-Methylphenol	106-44-5	38	U 38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	38	U 38	190		1
04688	4-Nitroaniline	100-01-6	76	U 76	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	570		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U 0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U 0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U 0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U 0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U 0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U 0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U 6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U 6.8	20		1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U 0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U 6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U 6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U 6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U 0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U 0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U 0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U 0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U 0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U 0.76	1.9		1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-137-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5C-SB-4.5-5.5

LLI Sample # SW 6178521
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

S1374 SDG#: DE053-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76 U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76 U	0.76	1.9		1
Perchlorate SW-846 6850 1/2007							
06557	6a Perchlorate EPA 6850	14797-73-0	4.6 J	2.4	5.7		1
Pesticides/PCBs SW-846 8082							
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	3.2 J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57 U	0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59 U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57 U	0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9		1
10225	PCB-1254	11097-69-1	8.8	0.37	1.9		1
10225	PCB-1260	11096-82-5	4.6	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals SW-846 6010B							
01643	Aluminum	7429-90-5	27,700	5.58	22.2		1
07914	Boron	7440-42-8	0.988 U	0.988	5.55		1
01650	Calcium	7440-70-2	4,920	6.81	22.2		1
01654	Iron	7439-89-6	26,300	5.23	22.2		1
01656	Lithium	7439-93-2	23.3	0.24	2.2		1
01657	Magnesium	7439-95-4	4,500	2.82	11.1		1
06958	Manganese	7439-96-5	386	0.0866	0.555		1
10145	Phosphorus	7723-14-0	190	0.622	11.1		1
01662	Potassium	7440-09-7	2,540	20.0	55.5		1
01667	Sodium	7440-23-5	153	41.4	111		1
07968	Strontium	7440-24-6	36.5	0.0688	0.555		1
06969	Tin	7440-31-5	2.55 J	1.11	11.1		1
06970	Titanium	7440-32-6	1,270	0.422	1.11		1
10146	Zirconium	7440-67-7	2.99 J	0.933	5.55		1
SW-846 6020							
06124	Antimony	7440-36-0	0.276	0.0680	0.227		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.18	0.0680	0.453		2
06126	Barium	7440-39-3	200	0.122	0.453		2
06127	Beryllium	7440-41-7	1.07	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.270	0.0408	0.113		2

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-137-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5C-SB-4.5-5.5

LLI Sample # SW 6178521
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

S1374 SDG#: DE053-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06131	Chromium	7440-47-3	38.3	0.136	0.453		2
06132	Cobalt	7440-48-4	8.88	0.0227	0.113		2
06133	Copper	7440-50-8	13.1	0.0747	0.453		2
06135	Lead	7439-92-1	10.5	0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.771	0.0566	0.113		2
06139	Nickel	7440-02-0	20.4	0.113	0.453		2
06141	Selenium	7782-49-2	0.285 J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0660 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.412	0.0340	0.113		2
06148	Vanadium	7440-62-2	81.1	0.0249	0.113		2
06149	Zinc	7440-66-6	71.9	0.634	3.40		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.113		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5	0.91	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.0		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67 J	0.23	1.1		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	413	10.0	10.0		1
		The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.98	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	11.7	0.50	0.50		1
		"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-137-SA5C-SB-5.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-137-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5C-SB-4.5-5.5

LLI Sample # SW 6178521
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

S1374 SDG#: DE053-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 17:51	Chelsea B Eastep	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 21:59	Sara E Johnson	23.99
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:51	Larry E Bevins	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201100623454	01/06/2011 15:00	Larry E Bevins	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201100623454	01/06/2011 15:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100623454	01/06/2011 14:52	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/21/2011 02:13	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/15/2011 13:15	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110200023A	01/21/2011 15:46	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 06:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	2	110200023A	01/21/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:55	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:13	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:01	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-137-SA5C-SB-4.5-5.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5C-SB-4.5-5.5

LLI Sample # SW 6178521
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 11:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

S1374 SDG#: DE053-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 18:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 20:21	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 04:56	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101B	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401B	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-298-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-0.0-0.5

LLI Sample # SW 6178522
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL298 SDG#: DE053-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	540		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U 180	540		1
04688	Benzyl alcohol	100-51-6	180	U 180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U 18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180		1
04688	4-Chloroaniline	106-47-8	73	U 73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	Diethylphthalate	84-66-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180		1
04688	Dimethylphthalate	131-11-3	18	U 18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	540		1
04688	2,4-Dinitrophenol	51-28-5	730	U 730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U 18	360		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U 73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	73	U 73	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-298-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-0.0-0.5

LLI Sample # SW 6178522
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL298 SDG#: DE053-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U 18	180		1
04688	Pentachlorophenol	87-86-5	180	U 180	540		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.6	U 3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U 1.8	9.1		5
10138	Anthracene	120-12-7	1.8	U 1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	3.6	U 3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	7.5	J 3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	6.3	J 3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	9.5	3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U 3.6	9.1		5
10138	Chrysene	218-01-9	8.8	J 1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U 3.6	9.1		5
10138	Fluoranthene	206-44-0	3.6	U 3.6	9.1		5
10138	Fluorene	86-73-7	3.6	U 3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U 3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U 3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U 3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U 3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U 3.6	9.1		5
10138	Phenanthrene	85-01-8	3.6	U 3.6	9.1		5
10138	Pyrene	129-00-0	5.0	J 3.6	9.1		5
Reporting limits were raised due to interference from the sample matrix.							
Herbicides	SW-846 8151A		ug/kg	ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U 1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U 4.8	9.8		1
10401	2,4-DB	94-82-6	2.5	U 2.5	2.5		1
10401	Dicamba	1918-00-9	0.44	U 0.44	1.3		1
10401	Dinoseb	88-85-7	0.32	U 0.32	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U 0.87	1.9		1
10401	MCPA	94-74-6	83	U 83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U 82	270		1
10401	2,4,5-T	93-76-5	0.089	U 0.089	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U 0.082	0.19		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the

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Sample Description: SL-298-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-0.0-0.5

LLI Sample # SW 6178522
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL298 SDG#: DE053-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs							
	SW-846 8081A		ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.072 U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037 U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065 U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037 U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87 U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.45 U	0.45	0.45		1
01363	p,p-DDE	72-55-9	0.33 U	0.33	0.37		1
01363	p,p-DDT	50-29-3	0.13 U	0.13	0.37		1
01363	Delta BHC	319-86-8	0.039 U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072 U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048 U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.12 U	0.12	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072 U	0.072	0.37		1
01363	Endrin	72-20-8	0.072 U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072 U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072 U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065 U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037 U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37 U	0.37	1.8		1
01363	Mirex	2385-85-5	1.0 U	1.0	1.0		1
01363	Toxaphene	8001-35-2	2.4 U	2.4	7.2		1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs							
	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.6 J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.54 U	0.54	1.9		1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.54 U	0.54	1.9		1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.59 J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36 U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-298-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-0.0-0.5

LLI Sample # SW 6178522
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL298 SDG#: DE053-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,500	5.27	20.9		1
07914	Boron	7440-42-8	0.932 U	0.932	5.24		1
01650	Calcium	7440-70-2	4,150	6.42	20.9		1
01654	Iron	7439-89-6	20,800	4.93	20.9		1
01656	Lithium	7439-93-2	14.9	0.23	2.1		1
01657	Magnesium	7439-95-4	5,100	2.66	10.5		1
06958	Manganese	7439-96-5	346	0.0817	0.524		1
10145	Phosphorus	7723-14-0	690	0.587	10.5		1
01662	Potassium	7440-09-7	3,620	18.9	52.4		1
01667	Sodium	7440-23-5	338	39.1	105		1
07968	Strontium	7440-24-6	28.6	0.0649	0.524		1
06969	Tin	7440-31-5	2.12 J	1.05	10.5		1
06970	Titanium	7440-32-6	1,500	0.398	1.05		1
10146	Zirconium	7440-67-7	1.13 J	0.880	5.24		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.102 J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.32	0.0647	0.431		2
06126	Barium	7440-39-3	155	0.116	0.431		2
06127	Beryllium	7440-41-7	0.438	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.201	0.0388	0.108		2
06131	Chromium	7440-47-3	18.3	0.129	0.431		2
06132	Cobalt	7440-48-4	6.87	0.0216	0.108		2
06133	Copper	7440-50-8	14.3	0.0712	0.431		2
06135	Lead	7439-92-1	5.71	0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.526	0.0539	0.108		2
06139	Nickel	7440-02-0	11.9	0.108	0.431		2
06141	Selenium	7782-49-2	0.0896 J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0329 J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.289	0.0324	0.108		2
06148	Vanadium	7440-62-2	57.1	0.0237	0.108		2
06149	Zinc	7440-66-6	62.1	0.604	3.24		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.87	1.1		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.7		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40 J	0.22	1.1		1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-298-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-0.0-0.5

LLI Sample # SW 6178522
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL298 SDG#: DE053-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	433	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.19	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	8.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/21/2011 02:48	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/15/2011 13:48	Mark A Clark	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110060007A	01/10/2011 21:52	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110170031A	02/03/2011 07:12	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 06:40	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110170031A	01/18/2011 08:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110060007A	01/07/2011 02:20	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:59	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-298-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-298-SA5B-SS-0.0-0.5

LLI Sample # SW 6178522
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL298 SDG#: DE053-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:17	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 19:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 20:45	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 05:09	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101B	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401B	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: TB-010511 Water
SSFL Area IV Collocated Soil Sampling
TB-010511

LLI Sample # WW 6178523
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 08:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

TB105 SDG#: DE053-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6 U	6	20		1
10904	Benzene	71-43-2	0.5 U	0.5	5		1
10904	Bromobenzene	108-86-1	1 U	1	5		1
10904	Bromochloromethane	74-97-5	1 U	1	5		1
10904	Bromodichloromethane	75-27-4	1 U	1	5		1
10904	Bromoform	75-25-2	1 U	1	5		1
10904	Bromomethane	74-83-9	1 U	1	5		1
10904	2-Butanone	78-93-3	3 U	3	10		1
10904	n-Butylbenzene	104-51-8	1 U	1	5		1
10904	sec-Butylbenzene	135-98-8	1 U	1	5		1
10904	tert-Butylbenzene	98-06-6	1 U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1 U	1	5		1
10904	Chlorobenzene	108-90-7	0.8 U	0.8	5		1
10904	Chloroethane	75-00-3	1 U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2 U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8 U	0.8	5		1
10904	Chloromethane	74-87-3	1 U	1	5		1
10904	2-Chlorotoluene	95-49-8	1 U	1	5		1
10904	4-Chlorotoluene	106-43-4	1 U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2 U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5		1
10904	Dibromochloromethane	124-48-1	1 U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1 U	1	5		1
10904	Dibromomethane	74-95-3	1 U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1 U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1 U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1 U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2 U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1 U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1 U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8 U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8 U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8 U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1 U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1 U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1 U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1 U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1 U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1 U	1	5		1
10904	Ethylbenzene	100-41-4	0.8 U	0.8	5		1
10904	Freon 113	76-13-1	2 U	2	10		1
10904	Freon 133a	75-88-7	2 U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2 U	2	5		1
10904	2-Hexanone	591-78-6	3 U	3	10		1
10904	Isopropylbenzene	98-82-8	1 U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1 U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3 U	3	10		1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: TB-010511 Water
SSFL Area IV Collocated Soil Sampling
TB-010511

LLI Sample # WW 6178523
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 08:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

TB105 SDG#: DE053-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC	Volatiles	TPH GRO SW-8015B	ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110101AA	01/10/2011 14:41	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110101AA	01/10/2011 14:04	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110101AA	01/10/2011 14:04	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110101AA	01/10/2011 14:41	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11007A20A	01/07/2011 18:24	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11007A20A	01/07/2011 18:24	Katrina T Longenecker	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110071AA Sample number(s): 6178513-6178514, 6178516-6178521									
Acetone	6.7 U	6.7	8.0	ug/kg	172		32-209		
Benzene	0.10 U	0.10	4.0	ug/kg	101		80-120		
Bromobenzene	0.13 U	0.13	4.0	ug/kg	90		79-120		
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	99		79-124		
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40 U	0.40	4.0	ug/kg	97		70-120		
Bromomethane	0.25 U	0.25	4.0	ug/kg	69		32-162		
2-Butanone	1.2 U	1.2	8.0	ug/kg	124		46-153		
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	93		72-120		
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	92		75-120		
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	87		75-120		
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	104		69-122		
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13 U	0.13	4.0	ug/kg	79		37-154		
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	93		43-146		
Chloroform	0.12 U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33 U	0.33	4.0	ug/kg	77		54-132		
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	91		78-120		
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	93		79-120		
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	138*		22-131		
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	84		58-120		
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	97		77-120		
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24 U	0.24	4.0	ug/kg	97		80-120		
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	93		79-120		
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	91		78-120		
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	92		79-120		
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	70		20-120		
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	100		80-120		
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	97		71-129		
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	103		73-123		
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	101		80-120		
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	96		80-120		
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	94		80-120		
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	102		72-123		
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	85		80-120		
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	95		80-120		
Freon 113	0.11 U	0.11	4.0	ug/kg	105		61-126		
Freon 133a	0.50 U	0.50	5.0	ug/kg	90		78-120		
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	91		57-120		
2-Hexanone	1.6 U	1.6	8.0	ug/kg	83		45-155		
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	95		76-120		
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	93		75-120		

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	96		74-121		
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	69		61-134		
Methylene Chloride	0.24 U	0.24	4.0	ug/kg	93		76-124		
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	95		77-120		
Styrene	0.10 U	0.10	4.0	ug/kg	95		76-120		
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	99		80-120		
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	88		71-123		
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	106		77-120		
Toluene	0.15 J	0.08	4.0	ug/kg	99		80-120		
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	87		64-120		
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	82		68-120		
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	103		71-125		
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15 U	0.15	4.0	ug/kg	98		80-120		
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	87		58-133		
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	92		71-122		
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	91		79-120		
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	92		78-120		
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	78		53-120		
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17 U	0.17	4.0	ug/kg	89		80-120		

Batch number: E110071AA Sample number(s): 6178513-6178514, 6178516-6178521
1,4-Dioxane 5.0 U 5.0 15 ug/kg 108 110 70-130 1 30

Batch number: E110101AA Sample number(s): 6178523
1,4-Dioxane 0.5 U 0.5 2.0 ug/l 102 104 60-132 2 30

Batch number: Y110101AA Sample number(s): 6178523

Acetone	6 U	6.	20	ug/l	106	99	49-234	7	30
Benzene	0.5 U	0.5	5	ug/l	102	97	79-120	5	30
Bromobenzene	1 U	1.	5	ug/l	104	99	80-120	5	30
Bromochloromethane	1 U	1.	5	ug/l	104	101	80-120	3	30
Bromodichloromethane	1 U	1.	5	ug/l	104	99	80-120	4	30
Bromoform	1 U	1.	5	ug/l	99	94	61-120	5	30
Bromomethane	1 U	1.	5	ug/l	94	86	44-120	9	30
2-Butanone	3 U	3.	10	ug/l	106	102	66-151	4	30
n-Butylbenzene	1 U	1.	5	ug/l	99	95	74-120	4	30
sec-Butylbenzene	1 U	1.	5	ug/l	104	98	78-120	6	30
tert-Butylbenzene	1 U	1.	5	ug/l	100	96	80-120	4	30
Carbon Tetrachloride	1 U	1.	5	ug/l	106	98	75-123	8	30
Chlorobenzene	0.8 U	0.8	5	ug/l	101	97	80-120	5	30
Chloroethane	1 U	1.	5	ug/l	90	87	49-129	4	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	102	100	56-129	1	30
Chloroform	0.8 U	0.8	5	ug/l	109	103	77-122	6	30
Chloromethane	1 U	1.	5	ug/l	100	96	60-129	4	30
2-Chlorotoluene	1 U	1.	5	ug/l	105	99	80-120	5	30
4-Chlorotoluene	1 U	1.	5	ug/l	102	98	80-120	4	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	87	87	38-136	0	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	104	99	66-120	5	30
Dibromochloromethane	1 U	1.	5	ug/l	100	95	80-120	5	30
1,2-Dibromoethane	1 U	1.	5	ug/l	103	99	80-120	4	30
Dibromomethane	1 U	1.	5	ug/l	106	101	80-120	5	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	99	93	80-120	6	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	101	96	80-120	5	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	100	96	80-120	5	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	91	85	47-120	7	30
1,1-Dichloroethane	1 U	1.	5	ug/l	104	98	79-120	6	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1 U	1.	5	ug/l	114	108	70-130	6	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	109	105	74-123	4	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	103	98	80-120	6	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	99	96	80-120	3	30
1,2-Dichloropropane	1 U	1.	5	ug/l	101	96	78-120	5	30
1,3-Dichloropropane	1 U	1.	5	ug/l	103	99	80-120	4	30
2,2-Dichloropropane	1 U	1.	5	ug/l	106	98	77-124	7	30
1,1-Dichloropropene	1 U	1.	5	ug/l	105	99	80-120	6	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	98	94	80-120	4	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	99	97	79-120	2	30
Ethylbenzene	0.8 U	0.8	5	ug/l	102	98	79-120	4	30
Freon 113	2 U	2.	10	ug/l	113	108	69-128	4	30
Freon 133a	2 U	2.	5	ug/l	95	92	77-120	3	30
Hexachlorobutadiene	2 U	2.	5	ug/l	94	91	58-120	4	30
2-Hexanone	3 U	3.	10	ug/l	105	102	65-136	3	30
Isopropylbenzene	1 U	1.	5	ug/l	102	97	77-120	5	30
p-Isopropyltoluene	1 U	1.	5	ug/l	104	99	80-120	5	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	104	100	76-120	3	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	106	101	70-121	5	30
Methylene Chloride	2 U	2.	5	ug/l	100	92	80-120	8	30
n-Propylbenzene	1 U	1.	5	ug/l	105	100	80-120	5	30
Styrene	1 U	1.	5	ug/l	101	97	80-120	4	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	103	98	80-120	4	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	102	98	71-120	4	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	104	101	80-121	3	30
Toluene	0.7 U	0.7	5	ug/l	101	95	79-120	5	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	103	99	65-120	4	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	100	97	67-120	2	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	94	88	75-127	6	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	102	97	80-120	5	30
Trichloroethene	1 U	1.	5	ug/l	106	99	80-120	7	30
Trichlorofluoromethane	2 U	2.	5	ug/l	102	95	64-129	7	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	106	105	80-120	1	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	104	99	74-120	5	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	104	98	75-120	6	30
Vinyl Chloride	1 U	1.	5	ug/l	88	83	65-125	6	30
m+p-Xylene	0.8 U	0.8	5	ug/l	100	95	80-120	5	30
o-Xylene	0.8 U	0.8	5	ug/l	99	96	80-120	4	30

Batch number: 11006SLA026

Sample number(s): 6178512-6178522

Aniline	170 U	170.	500	ug/kg	54	10-107
Benzidine	1,200 U	1,200.	3,300	ug/kg	47	15-121
Benzoic acid	170 U	170.	500	ug/kg	88	10-154
Benzyl alcohol	170 U	170.	500	ug/kg	87	68-111
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	94	79-117
Butylbenzylphthalate	17 U	17.	170	ug/kg	96	75-115
Di-n-butylphthalate	17 U	17.	170	ug/kg	93	79-112
Carbazole	17 U	17.	170	ug/kg	92	77-113
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	92	74-119
4-Chloroaniline	67 U	67.	170	ug/kg	43	10-110
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	96	70-118
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	87	70-104
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	88	68-131
2-Chloronaphthalene	17 U	17.	170	ug/kg	84	67-127

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chlorophenol	17 U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	98		79-110		
Dibenzofuran	17 U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17 U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17 U	17.	170	ug/kg	90		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	44		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	97		75-111		
Diethylphthalate	17 U	17.	170	ug/kg	95		76-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	102		70-130		
Dimethylphthalate	17 U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	79		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	77		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17 U	17.	170	ug/kg	100		77-111		
bis(2-Ethylhexyl)phthalate	17 U	17.	330	ug/kg	98		75-117		
Hexachlorobenzene	17 U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67 U	67.	170	ug/kg	102		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	108		46-115		
Hexachloroethane	17 U	17.	170	ug/kg	93		68-105		
Isophorone	17 U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33 U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	90		66-117		
2-Nitroaniline	17 U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33 U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67 U	67.	170	ug/kg	62		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	98		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	95		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	97		56-118		
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	87		63-107		
N-Nitrosodiphenylamine	17 U	17.	170	ug/kg	96		67-141		
Di-n-octylphthalate	17 U	17.	170	ug/kg	84		68-130		
Pentachlorophenol	170 U	170.	500	ug/kg	75		35-106		
Phenol	17 U	17.	170	ug/kg	92		58-112		
1,2,4-Trichlorobenzene	17 U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33 U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33 U	33.	170	ug/kg	103		78-111		
Batch number: 11006SLC026	Sample number(s): 6178512-6178522								
Acenaphthene	0.67 U	0.67	1.7	ug/kg	93		63-120		
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	110		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	95		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	116		58-129		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	120		63-143		
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	126		44-138		
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	135		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	113		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	113		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	97		79-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	122		62-142		
Diethylphthalate	6.0 U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0 U	6.0	18	ug/kg	122		70-130		
Bis(2-Ethylhexyl)phthalate	6.0 U	6.0	18	ug/kg	120		67-143		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	95		78-120		
Fluorene	0.67 U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	123		62-141		
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	95		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	101		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	136		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	98		56-121		

Batch number: 11008WAB026

Sample number(s): 6178511

Acenaphthene	0.010 U	0.010	0.050	ug/l	95	94	74-109	2	30
Acenaphthylene	0.010 U	0.010	0.050	ug/l	102	100	70-110	3	30
Anthracene	0.010 U	0.010	0.050	ug/l	100	98	66-111	2	30
Benzo(a)anthracene	0.010 U	0.010	0.050	ug/l	105	100	72-114	5	30
Benzo(a)pyrene	0.010 U	0.010	0.050	ug/l	118*	117*	64-115	1	30
Benzo(b)fluoranthene	0.010 U	0.010	0.050	ug/l	109	122	69-123	11	30
Benzo(g,h,i)perylene	0.010 U	0.010	0.050	ug/l	120	119	68-125	1	30
Benzo(k)fluoranthene	0.010 U	0.010	0.050	ug/l	129*	130*	72-122	1	30
Butylbenzylphthalate	0.050 U	0.050	1.0	ug/l	99	94	70-130	6	30
Di-n-butylphthalate	0.088 J	0.050	1.0	ug/l	115	115	70-130	0	30
Chrysene	0.010 U	0.010	0.050	ug/l	101	97	76-116	4	30
Dibenz(a,h)anthracene	0.010 U	0.010	0.050	ug/l	119	110	71-125	8	30
Diethylphthalate	0.050 U	0.050	1.0	ug/l	98	98	70-130	0	30
Dimethylphthalate	0.050 U	0.050	1.0	ug/l	82	81	70-130	2	30
Bis(2-Ethylhexyl)phthalate	0.12 J	0.050	1.0	ug/l	125	126	70-130	1	30
Fluoranthene	0.010 U	0.010	0.050	ug/l	100	93	75-116	7	30
Fluorene	0.010 U	0.010	0.050	ug/l	102	97	75-114	5	30
Indeno(1,2,3-cd)pyrene	0.010 U	0.010	0.050	ug/l	119	110	69-124	7	30
1-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	98	100	71-117	1	30
2-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	98	101	75-115	3	30
Naphthalene	0.010 U	0.010	0.050	ug/l	98	93	72-109	4	30
N-Nitrosodimethylamine	0.010 U	0.010	0.050	ug/l	57*	55*	70-130	3	30
Di-n-octylphthalate	0.059 J	0.050	1.0	ug/l	120	129	70-130	7	30
Phenanthrene	0.010 U	0.010	0.050	ug/l	100	96	76-111	5	30
Pyrene	0.010 U	0.010	0.050	ug/l	100	95	69-118	5	30

Batch number: 11010WAC026

Sample number(s): 6178511

Aniline	1 U	1.	5	ug/l	71	67	49-101	7	30
Benzidine	20 U	20.	60	ug/l	53	52	20-109	1	30
Benzoic acid	6 U	6.	15	ug/l	32	14	10-69	80*	30
Benzyl alcohol	5 U	5.	15	ug/l	84	86	66-97	2	30
4-Bromophenyl-phenylether	1 U	1.	5	ug/l	95	96	82-117	2	30
Carbazole	1 U	1.	5	ug/l	102	100	81-114	1	30
4-Chloro-3-methylphenol	1 U	1.	5	ug/l	98	99	70-123	1	30
4-Chloroaniline	1 U	1.	5	ug/l	47	49	42-124	4	30
bis(2-Chloroethoxy)methane	1 U	1.	5	ug/l	97	97	74-124	0	30
bis(2-Chloroethyl)ether	1 U	1.	5	ug/l	97	100	77-108	3	30
bis(2-Chloroisopropyl)ether	1 U	1.	5	ug/l	96	97	62-127	2	30
2-Chloronaphthalene	2 U	2.	5	ug/l	83	84	54-132	0	30
2-Chlorophenol	1 U	1.	5	ug/l	98	99	77-108	1	30
4-Chlorophenyl-phenylether	2 U	2.	5	ug/l	96	99	82-111	2	30
Dibenzofuran	1 U	1.	5	ug/l	99	99	83-108	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	1 U	1.	5	ug/l	89	93	67-108	4	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	90	92	63-110	2	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	89	91	65-113	3	30
3,3'-Dichlorobenzidine	2 U	2.	5	ug/l	66	68	49-111	3	30
2,4-Dichlorophenol	1 U	1.	5	ug/l	101	100	80-109	0	30
2,4-Dimethylphenol	3 U	3.	10	ug/l	99	100	72-110	1	30
3,5-Dimethylphenol	3 U	3.	10	ug/l	108	106	70-130	2	30
4,6-Dinitro-2-methylphenol	5 U	5.	15	ug/l	82	86	78-119	5	30
2,4-Dinitrophenol	10 U	10.	30	ug/l	69	71	64-120	2	30
2,4-Dinitrotoluene	1 U	1.	5	ug/l	98	99	81-115	1	30
2,6-Dinitrotoluene	1 U	1.	5	ug/l	100	101	85-115	1	30
1,2-Diphenylhydrazine	1 U	1.	5	ug/l	100	102	78-116	2	30
Hexachlorobenzene	1 U	1.	5	ug/l	97	98	81-118	1	30
Hexachlorobutadiene	1 U	1.	5	ug/l	92	91	57-124	2	30
Hexachlorocyclopentadiene	5 U	5.	15	ug/l	57	62	10-118	9	30
Hexachloroethane	1 U	1.	5	ug/l	83	86	52-113	4	30
Isophorone	1 U	1.	5	ug/l	99	99	74-117	0	30
2-Methylphenol	1 U	1.	5	ug/l	93	94	64-101	1	30
4-Methylphenol	2 U	2.	5	ug/l	80	80	61-103	0	30
2-Nitroaniline	1 U	1.	5	ug/l	100	102	83-116	2	30
3-Nitroaniline	1 U	1.	5	ug/l	96	98	74-113	1	30
4-Nitroaniline	1 U	1.	5	ug/l	84	83	59-100	1	30
Nitrobenzene	1 U	1.	5	ug/l	98	100	75-109	2	30
2-Nitrophenol	1 U	1.	5	ug/l	99	103	86-120	4	30
4-Nitrophenol	10 U	10.	30	ug/l	43	44	16-78	2	30
N-Nitroso-di-n-propylamine	1 U	1.	5	ug/l	100	99	69-110	0	30
N-Nitrosodiphenylamine	2 U	2.	5	ug/l	95	98	67-136	3	30
Pentachlorophenol	3 U	3.	15	ug/l	85	85	53-110	0	30
Phenol	1 U	1.	5	ug/l	43	42	29-67	2	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	92	96	71-112	4	30
2,4,5-Trichlorophenol	1 U	1.	5	ug/l	100	100	79-107	1	30
2,4,6-Trichlorophenol	1 U	1.	5	ug/l	100	102	81-113	2	30

Batch number: 11011SLB026 Sample number(s): 6178518-6178519
N-Nitrosodimethylamine 16.7 U 16.7 33.3 ng/kg 93 70-130

Batch number: 11007A20A Sample number(s): 6178523
TPH-GRO S.CA water C5-C12 20 U 20. 50 ug/l 85 100 75-135 16 30

Batch number: 11010A34A Sample number(s): 6178518-6178519
9a TPH by EPA 8015B Gas C5-C12 0.2 U 0.2 1.0 mg/kg 76 80 67-119 5 30

Batch number: 110110003A Sample number(s): 6178518-6178519
4-Amino-2,6-Dinitrotoluene 60 U 60. 120 ug/kg 107 80-120
2-Amino-4,6-Dinitrotoluene 40 U 40. 120 ug/kg 110 80-120
2,6-Diamino-4-nitrotoluene 80 U 80. 240 ug/kg 93 83 54-134 12 30
2,4-Diamino-6-nitrotoluene 80 U 80. 240 ug/kg 93 82 54-134 12 30
1,3-Dinitrobenzene 40 U 40. 120 ug/kg 109 51-171
2,4-Dinitrotoluene 40 U 40. 120 ug/kg 107 72-135
2,6-Dinitrotoluene 40 U 40. 120 ug/kg 109 80-120
HMX 100 U 100. 300 ug/kg 94 74-130

Nitrobenzene 40 U 40. 120 ug/kg 106 80-120
Nitroglycerin 800 U 800. 2,400 ug/kg 89 80-120

2-Nitrotoluene 80 U 80. 120 ug/kg 107 78-128
3-Nitrotoluene 100 U 100. 120 ug/kg 107 73-127

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

<u>Analysis Name</u>	<u>Blank Result</u>		<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCS D Limits</u>	<u>RPD</u>	<u>RPD Max</u>
4-Nitrotoluene	80	U	80.	120	ug/kg	105		80-120		
PETN	800		800.	2,400	ug/kg	111		80-120		
RDX	50	U	50.	120	ug/kg	115		75-131		
Tetryl	61	U	61.	120	ug/kg	115		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	115		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
Batch number: 110100020A	Sample number(s): 6178518-6178519									
17a Formaldehyde by 8315A	600		600.	1,500	ug/kg	96		80-126		
	U									
Batch number: 110060007A	Sample number(s): 6178512, 6178522									
2,4-D	1.2	U	1.2	3.6	ug/kg	102		40-140		
Dalapon	4.4	U	4.4	9.0	ug/kg	84		24-89		
2,4-DB	0.62	U	0.62	1.7	ug/kg	87		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	81		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	7*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	106		60-141		
MCPA	76	U	76.	250	ug/kg	99		34-113		
MCPP (Mecoprop)	100		75.	250	ug/kg	87		29-154		
	J									
2,4,5-T	0.082	U	0.082	0.17	ug/kg	96		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	89		48-138		
Batch number: 110200023A	Sample number(s): 6178521									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	106		85-115		
Batch number: 110080006A	Sample number(s): 6178512-6178522									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	67*	69*	75-125	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		72-120		
PCB-1221	0.50	U	0.50	1.7	ug/kg					
PCB-1232	0.52	U	0.52	1.7	ug/kg					
PCB-1242	0.50	U	0.50	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.33	U	0.33	1.7	ug/kg	107		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 110100018A	Sample number(s): 6178511									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	58*	62*	75-125	7	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	104	98	68-119	6	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	102	100	68-121	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 110170031A	Sample number(s): 6178512, 6178522									
Aldrin	0.066	U	0.066	0.17	ug/kg	124		44-135		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Alpha BHC	0.034 U	0.034	0.17	ug/kg	85		38-130		
Beta BHC	0.060 U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034 U	0.034	0.17	ug/kg	88		46-127		
Chlordane	0.80 U	0.80	3.4	ug/kg					
p,p-DDD	0.066 U	0.066	0.34	ug/kg	96		60-137		
p,p-DDE	0.066 U	0.066	0.34	ug/kg	126		59-141		
p,p-DDT	0.066 U	0.066	0.34	ug/kg	86		54-130		
Delta BHC	0.036 U	0.036	0.17	ug/kg	91		55-144		
Dieldrin	0.066 U	0.066	0.34	ug/kg	92		65-129		
Endosulfan I	0.044 U	0.044	0.17	ug/kg	73		45-123		
Endosulfan II	0.066 U	0.066	0.34	ug/kg	105		63-127		
Endosulfan Sulfate	0.066 U	0.066	0.34	ug/kg	122		72-138		
Endrin	0.066 U	0.066	0.34	ug/kg	91		62-129		
Endrin Aldehyde	0.066 U	0.066	0.34	ug/kg	88		55-132		
Endrin Ketone	0.066 U	0.066	0.34	ug/kg	138		69-139		
Heptachlor	0.060 U	0.060	0.17	ug/kg	91		43-124		
Heptachlor Epoxide	0.034 U	0.034	0.17	ug/kg	124		65-131		
Methoxychlor	0.34 U	0.34	1.7	ug/kg	85		59-125		
Mirex	0.066 U	0.066	0.34	ug/kg					
Toxaphene	2.2 U	2.2	6.6	ug/kg					
Batch number: 110130009A Sample number(s): 6178518-6178519									
EFH (C12-C14)	0.40 U	0.40	1.2	mg/kg	88		66-113		
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	89		66-113		
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	86		66-113		
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	84		66-113		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	80		66-113		
Batch number: 110060008A Sample number(s): 6178518-6178519									
Ethanol	100 U	100.	500	ug/kg	107		75-112		
Isopropanol	100 U	100.	500	ug/kg	96		75-125		
Methanol	100 U	100.	500	ug/kg	103		75-134		
Batch number: 110180028A Sample number(s): 6178518-6178519									
Diethylene glycol	5.0 U	5.0	13	mg/kg	101		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	98		75-125		
Propylene glycol	5.0 U	5.0	13	mg/kg	100		75-125		
Batch number: 110100011A Sample number(s): 6178518-6178519									
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	101		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	104		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	99		75-125		
Batch number: 110061026001A Sample number(s): 6178512-6178522									
Antimony	0.0600 U	0.0600	0.200	mg/kg	120		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	109		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	109		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	108		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	118		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	106		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	112		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	117		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	104		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	112		81-119		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Vanadium	0.0220 U	0.0220	0.100	mg/kg	106		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	104		78-122		
Batch number: 110061026001B	Sample number(s): 6178512-6178522								
Selenium	0.0400 U	0.0400	0.400	mg/kg	114		79-122		
Batch number: 110061026001C	Sample number(s): 6178512-6178522								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	115		78-122		
Batch number: 110061026001D	Sample number(s): 6178512-6178522								
Barium	0.108 U	0.108	0.400	mg/kg	106		79-121		
Batch number: 110065708002	Sample number(s): 6178512-6178522								
Aluminum	5.03 U	5.03	20.0	mg/kg	107		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	98		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	102		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	106		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	104		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	103		81-119		
Phosphorus	1.78 J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	103		78-110		
Sodium	37.3 U	37.3	100	mg/kg	103		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	110		79-121		
Tin	1.51 J	1.00	10.0	mg/kg	105		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	114		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	102		80-120		
Batch number: 110065711001	Sample number(s): 6178512-6178522								
Mercury	0.0029 U	0.0029	0.0996	mg/kg	97		88-123		
Batch number: 110101848002	Sample number(s): 6178511								
Aluminum	0.0834 U	0.0834	0.200	mg/l	95	94	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	91	90	90-110	0	20
Calcium	0.0891 J	0.0702	0.200	mg/l	101	100	90-112	0	20
Iron	0.0522 U	0.0522	0.200	mg/l	98	98	90-112	0	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	100	80-120	1	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	97	98	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	99	99	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	97	98	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	97	98	85-115	1	20
Sodium	0.433 U	0.433	1.00	mg/l	97	98	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	99	98	90-110	0	20
Tin	0.0098 U	0.0098	0.0200	mg/l	97	98	90-110	1	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	99	99	90-113	0	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	99	100	80-120	1	20
Batch number: 110105713005	Sample number(s): 6178511								
Mercury	0.000050 U	0.00005	0.00020	mg/l	107	107	80-120	0	20
Batch number: 110106050002A	Sample number(s): 6178511								
Antimony	0.00030 U	0.00030	0.0010	mg/l	109	104	87-110	5	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	104	97	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	107	107	90-112	0	20
Cadmium	0.00029 J	0.00020	0.00050	mg/l	105	111	90-114	5	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	99	105	90-118	6	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	99	105	80-120	6	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Copper	0.00038 U	0.00038	0.0020	mg/l	102	106	90-113	4	20
Lead	0.00027 J	0.00005	0.0010	mg/l	100	105	90-115	5	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	100	103	90-113	4	20
Silver	0.000080 U	0.00008	0.00050	mg/l	102	102	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	98	108	89-116	10	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	99	104	80-120	6	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	113	80-120	9	20
Batch number: 110106050002B	Sample number(s): 6178511								
Selenium	0.00025 U	0.00025	0.0020	mg/l	106	109	85-114	3	20
Batch number: 110106050002C	Sample number(s): 6178511								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	100	102	80-120	2	20
Batch number: 110106050002D	Sample number(s): 6178511								
Barium	0.00038 U	0.00038	0.0020	mg/l	102	104	88-113	2	20
Batch number: 11006196401A	Sample number(s): 6178511								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	100	97	90-110	4	20
Batch number: 11008196904A	Sample number(s): 6178511								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	100	100	90-110	1	20
Batch number: 11014102201A	Sample number(s): 6178518-6178519								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11017017201A	Sample number(s): 6178512								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11017017201B	Sample number(s): 6178513-6178522								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11017017202A	Sample number(s): 6178512								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	109		90-110		
Batch number: 11017017202B	Sample number(s): 6178513-6178522								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	93		90-110		
Batch number: 11018243201A	Sample number(s): 6178512-6178522								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	87		80-120		
Batch number: 11019621701A	Sample number(s): 6178511								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	91		85-115		
Batch number: 11007039401A	Sample number(s): 6178512-6178520								
22a pH by 9045C					100		95-105		
Batch number: 11007039401B	Sample number(s): 6178521-6178522								
22a pH by 9045C					100		95-105		
Batch number: 11007182101A	Sample number(s): 6178512-6178520								
Oxidation Reduction Potential					100		98-102		
Batch number: 11007182101B	Sample number(s): 6178521-6178522								
Oxidation Reduction Potential					100		98-102		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 11012162401B 28a Moisture Content by 160.3	Sample number(s): 6178512-6178517, 6178520-6178522				100		80-120		
Batch number: 11019162401A 28a Moisture Content by 160.3	Sample number(s): 6178518-6178519				100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B110071AA	Sample number(s): 6178513-6178514, 6178516-6178521 UNSPK: P179369								
Acetone	123	107	15-210	14	30				
Benzene	92	90	55-143	3	30				
Bromobenzene	74	72	43-139	3	30				
Bromochloromethane	93	90	60-137	3	30				
Bromodichloromethane	88	85	53-136	3	30				
Bromoform	89	83	38-124	7	30				
Bromomethane	69	65	42-168	5	30				
2-Butanone	94	89	37-163	6	30				
n-Butylbenzene	55	50	30-146	9	30				
sec-Butylbenzene	57	53	33-157	7	30				
tert-Butylbenzene	60	56	41-152	6	30				
Carbon Tetrachloride	95	91	45-153	5	30				
Chlorobenzene	80	76	49-135	6	30				
Chloroethane	72	70	39-152	3	30				
2-Chloroethyl Vinyl Ether	80	80	32-139	1	30				
Chloroform	95	92	61-142	4	30				
Chloromethane	77	75	51-163	3	30				
2-Chlorotoluene	68	63	42-146	7	30				
4-Chlorotoluene	67	63	39-145	6	30				
Chlorotrifluoroethene	135*	137*	70-130	13	30				
1,2-Dibromo-3-chloropropane	75	71	30-139	6	30				
Dibromochloromethane	90	85	51-128	5	30				
1,2-Dibromoethane	87	84	54-129	5	30				
Dibromomethane	92	88	57-130	4	30				
1,2-Dichlorobenzene	76	72	36-133	6	30				
1,3-Dichlorobenzene	69	65	34-134	6	30				
1,4-Dichlorobenzene	71	67	35-136	6	30				
Dichlorodifluoromethane	72	68	26-151	7	30				
1,1-Dichloroethane	96	93	63-142	3	30				
1,2-Dichloroethane	93	89	68-131	4	30				
1,1-Dichloroethene	101	95	61-149	6	30				
cis-1,2-Dichloroethene	95	91	60-136	5	30				
trans-1,2-Dichloroethene	96	94	59-142	3	30				
1,2-Dichloropropane	90	88	62-135	3	30				
1,3-Dichloropropane	87	83	58-129	4	30				
2,2-Dichloropropane	95	92	53-147	4	30				
1,1-Dichloropropene	87	84	54-145	3	30				
cis-1,3-Dichloropropene	76	76	51-131	0	30				
trans-1,3-Dichloropropene	77	76	49-129	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	71	67	44-141	7	30				
Freon 113	105	98	56-156	6	30				
Freon 133a	87	90	70-130	11	30				
Hexachlorobutadiene	50	45	10-155	11	30				
2-Hexanone	60	58	32-160	4	30				
Isopropylbenzene	64	59	38-144	8	30				
p-Isopropyltoluene	58	53	29-152	9	30				
Methyl Tertiary Butyl Ether	89	86	55-129	3	30				
4-Methyl-2-pentanone	61	61	46-139	1	30				
Methylene Chloride	90	86	61-141	4	30				
n-Propylbenzene	64	60	39-157	6	30				
Styrene	76	71	35-134	7	30				
1,1,1,2-Tetrachloroethane	88	82	52-130	7	30				
1,1,2,2-Tetrachloroethane	81	78	40-152	4	30				
Tetrachloroethene	79	75	42-149	5	30				
Toluene	83	80	50-146	4	30				
1,2,3-Trichlorobenzene	70	63	10-140	10	30				
1,2,4-Trichlorobenzene	59	55	10-136	8	30				
1,1,1-Trichloroethane	95	94	64-142	1	30				
1,1,2-Trichloroethane	91	87	54-139	4	30				
Trichloroethene	85	82	53-144	3	30				
Trichlorofluoromethane	86	81	47-163	6	30				
1,2,3-Trichloropropane	83	81	45-154	3	30				
1,2,4-Trimethylbenzene	66	60	37-149	8	30				
1,3,5-Trimethylbenzene	64	59	38-150	8	30				
Vinyl Chloride	78	75	50-154	4	30				
m+p-Xylene	74	68	44-137	8	30				
o-Xylene	69	64	42-137	8	30				

Batch number: E110071AA
1,4-Dioxane

Sample number(s): 6178513-6178514,6178516-6178521 UNSPK: P179369
126 112 70-130 20 30

Batch number: 11006SLA026

Sample number(s): 6178512-6178522 UNSPK: P177806

Aniline	55	47	14-114	15	30
Benzidine	35	27*	35-141	27	30
Benzoic acid	73	74	10-173	1	30
Benzyl alcohol	80	83	55-123	4	30
4-Bromophenyl-phenylether	88	92	67-129	4	30
Butylbenzylphthalate	94	95	73-134	1	30
Di-n-butylphthalate	88	91	67-123	4	30
Carbazole	86	90	64-120	5	30
4-Chloro-3-methylphenol	86	89	53-130	4	30
4-Chloroaniline	53	44	23-95	18	30
bis(2-Chloroethoxy)methane	90	93	54-117	3	30
bis(2-Chloroethyl)ether	80	82	60-116	3	30
bis(2-Chloroisopropyl)ether	81	81	55-142	1	30
2-Chloronaphthalene	78	81	50-141	4	30
2-Chlorophenol	86	91	73-121	5	30
4-Chlorophenyl-phenylether	91	94	64-119	3	30
Dibenzofuran	89	93	71-112	4	30
1,2-Dichlorobenzene	82	84	66-108	2	30
1,3-Dichlorobenzene	78	81	63-109	4	30
1,4-Dichlorobenzene	79	82	53-113	4	30

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Quality Control Summary

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Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
3,3'-Dichlorobenzidine	60	54	25-123	9	30				
2,4-Dichlorophenol	90	92	78-117	3	30				
Diethylphthalate	89	92	66-118	3	30				
2,4-Dimethylphenol	89	94	56-130	5	30				
3,5-Dimethylphenol	98	102	70-130	4	30				
Dimethylphthalate	90	92	64-118	3	30				
4,6-Dinitro-2-methylphenol	71	71	10-148	0	30				
2,4-Dinitrophenol	59	58	20-143	2	30				
2,4-Dinitrotoluene	90	97	57-114	7	30				
2,6-Dinitrotoluene	93	94	69-123	2	30				
1,2-Diphenylhydrazine	96	100	71-129	3	30				
bis(2-Ethylhexyl)phthalate	91	94	63-122	3	30				
Hexachlorobenzene	92	95	61-111	4	30				
Hexachlorobutadiene	91	95	62-120	3	30				
Hexachlorocyclopentadiene	82	85	10-153	3	30				
Hexachloroethane	83	85	57-109	2	30				
Isophorone	86	89	51-118	3	30				
2-Methylphenol	87	90	47-142	3	30				
4-Methylphenol	82	86	55-126	4	30				
2-Nitroaniline	95	100	67-125	5	30				
3-Nitroaniline	88	90	59-122	3	30				
4-Nitroaniline	66	64	52-112	4	30				
Nitrobenzene	91	94	51-114	3	30				
2-Nitrophenol	90	90	74-115	1	30				
4-Nitrophenol	88	93	39-133	6	30				
N-Nitroso-di-n-propylamine	79	85	60-116	7	30				
N-Nitrosodiphenylamine	89	93	86-145	5	30				
Di-n-octylphthalate	83	84	56-126	1	30				
Pentachlorophenol	63	69	17-149	9	30				
Phenol	84	92	58-126	8	30				
1,2,4-Trichlorobenzene	89	91	72-115	2	30				
2,4,5-Trichlorophenol	93	97	34-139	4	30				
2,4,6-Trichlorophenol	95	101	49-140	6	30				

Batch number: 11006SLC026	Sample number(s): 6178512-6178522 UNSPK: P177801								
Acenaphthene	107*	96	63-105	11	30				
Acenaphthylene	108	96	55-126	11	30				
Anthracene	91	101	46-136	10	30				
Benzo(a)anthracene	89	90	39-144	0	30				
Benzo(a)pyrene	104	105	34-156	1	30				
Benzo(b)fluoranthene	133	124	43-155	5	30				
Benzo(g,h,i)perylene	54	60	33-141	9	30				
Benzo(k)fluoranthene	120	118	42-144	1	30				
Butylbenzylphthalate	127	110	73-140	14	30				
Di-n-butylphthalate	127	129	78-160	1	30				
Chrysene	86	87	29-156	1	30				
Dibenz(a,h)anthracene	90	86	41-130	4	30				
Diethylphthalate	116	113	87-131	3	30				
Dimethylphthalate	119*	106	74-118	11	30				
Bis(2-Ethylhexyl)phthalate	4*	11*	39-167	5	30				
Fluoranthene	89	99	26-166	9	30				
Fluorene	102	96	45-121	6	30				
Indeno(1,2,3-cd)pyrene	82	78	21-143	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1-Methylnaphthalene	93	96	72-123	4	30				
2-Methylnaphthalene	88	92	28-121	4	30				
Naphthalene	96	87	61-102	10	30				
N-Nitrosodimethylamine	107	107	48-113	0	30				
Di-n-octylphthalate	149	155	40-192	4	30				
Phenanthrene	97	98	12-165	1	30				
Pyrene	77	82	15-153	4	30				
Batch number: 11011SLB026	Sample number(s): 6178518-6178519 UNSPK: P179368								
N-Nitrosodimethylamine	86	90	70-130	4	30				
Batch number: 110110003A	Sample number(s): 6178518-6178519 UNSPK: 6178518								
4-Amino-2,6-Dinitrotoluene	106	105	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	107	104	80-137	3	50				
1,3-Dinitrobenzene	107	104	38-166	3	50				
2,4-Dinitrotoluene	103	101	80-131	2	50				
2,6-Dinitrotoluene	107	105	80-127	2	50				
HMX	94	95	63-128	0	50				
Nitrobenzene	104	101	80-125	3	50				
Nitroglycerin	94	92	80-120	2	50				
2-Nitrotoluene	106	102	80-122	3	50				
3-Nitrotoluene	106	102	72-119	3	50				
4-Nitrotoluene	104	101	80-125	3	50				
PETN	111	109	80-121	1	50				
RDX	105	104	75-129	1	50				
Tetryl	112	109	55-174	2	50				
1,3,5-Trinitrobenzene	113	110	82-126	2	50				
2,4,6-Trinitrotoluene	106	103	82-130	3	50				
Batch number: 110100020A	Sample number(s): 6178518-6178519 UNSPK: P177800								
17a Formaldehyde by 8315A	98	102	80-120	4	50				
Batch number: 110060007A	Sample number(s): 6178512, 6178522 UNSPK: P177801								
2,4-D	102	111	28-161	8	35				
Dalapon	32	81	12-86	87*	50				
2,4-DB	72	73	20-170	1	50				
Dicamba	70	71	33-120	2	50				
Dinoseb	17	15	1-44	12	35				
2,4-DP (Dichlorprop)	99	101	55-141	2	50				
MCPA	92	103	31-184	12	50				
MCPP (Mecoprop)	79	78	16-174	1	50				
2,4,5-T	88	86	25-132	3	35				
2,4,5-TP	78	80	10-183	2	35				
Batch number: 110200023A	Sample number(s): 6178521 UNSPK: P182836								
6a Perchlorate EPA 6850	106	105	80-120	1	20				
Batch number: 110080006A	Sample number(s): 6178512-6178522 UNSPK: P172316								
PCB-1016	89	91	29-146	2	50				
PCB-1260	116	114	39-149	1	50				
Batch number: 110170031A	Sample number(s): 6178512, 6178522 UNSPK: 6178512								
Aldrin	100	100	16-126	0	50				

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Quality Control Summary

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Group Number: 1228000

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Alpha BHC	70	70	10-129	0	50				
Beta BHC	75	81	14-147	8	50				
Gamma BHC - Lindane	73	73	10-140	0	50				
p,p-DDD	70	76	16-163	8	50				
p,p-DDE	88	129	18-161	28	50				
p,p-DDT	63	66	10-176	4	50				
Delta BHC	75	78	23-140	4	50				
Dieldrin	65	65	19-154	0	50				
Endosulfan I	45	48	16-137	6	50				
Endosulfan II	82	80	28-154	2	50				
Endosulfan Sulfate	97	97	21-160	0	50				
Endrin	65	65	11-149	0	50				
Endrin Aldehyde	64	67	10-148	5	35				
Endrin Ketone	95	114	22-165	17	50				
Heptachlor	73	73	13-126	0	50				
Heptachlor Epoxide	91	94	13-157	3	50				
Methoxychlor	79	81	32-147	3	50				
Batch number: 110130009A	Sample number(s): 6178518-6178519 UNSPK: P179375								
EFH (C12-C14)	83	79	49-123	6	20				
EFH (C15-C20)	98	92	49-123	6	20				
EFH (C21-C30)	101	100	49-123	1	20				
EFH (C30 - C40)	92	91	49-123	1	20				
EFH (C8-C11)	57	56	49-123	2	20				
Batch number: 110060008A	Sample number(s): 6178518-6178519 UNSPK: P177800								
Ethanol	119	118	24-143	1	20				
Isopropanol	105	106	75-125	0	20				
Methanol	116	114	45-136	2	20				
Batch number: 110180028A	Sample number(s): 6178518-6178519 UNSPK: 6178519								
Diethylene glycol	102	96	59-109	7	20				
Ethylene glycol	100	93	63-107	8	20				
Propylene glycol	99	90	63-107	9	20				
Batch number: 110100011A	Sample number(s): 6178518-6178519 UNSPK: 6178518								
m-Terphenyl	105	105	75-125	0	20				
o-Terphenyl	109	109	75-125	0	20				
p-Terphenyl	102	104	75-125	1	20				
Batch number: 110061026001A	Sample number(s): 6178512-6178522 UNSPK: 6178512 BKG: 6178512								
Antimony	41*	44*	75-125	6	20	0.244	0.0986 J	85* (1)	20
Arsenic	24*	169*	75-125	42*	20	5.00	4.13	19	20
Beryllium	82	89	75-125	6	20	0.629	0.480	27* (1)	20
Cadmium	105	103	75-125	1	20	0.132	0.0833 J	45* (1)	20
Chromium	98	108	75-125	5	20	16.4	15.0	9	20
Cobalt	88	98	75-125	12	20	5.12	5.32	4	20
Copper	87	92	75-125	4	20	7.43	7.35	1	20
Lead	68*	84	75-125	6	20	5.85	4.32	30*	20
Nickel	95	114	75-125	11	20	9.31	8.69	7	20
Silver	111	110	75-125	1	20	0.0301 J	0.0300 J	1 (1)	20
Thallium	115	105	75-125	4	20	0.239	0.216	10 (1)	20
Vanadium	76 (2)	52 (2)	75-125	4	20	42.5	34.2	22*	20

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Zinc	94 (2)	101 (2)	75-125	2	20	40.9	38.5	6	20
Batch number: 110061026001B	Sample number(s): 6178512-6178522 UNSPK: 6178512 BKG: 6178512								
Selenium	92	102	75-125	12	20	0.152 J	0.112 J	30* (1)	20
Batch number: 110061026001C	Sample number(s): 6178512-6178522 UNSPK: 6178512 BKG: 6178512								
Molybdenum	104	99	75-125	1	20	0.657	0.409	46* (1)	20
Batch number: 110061026001D	Sample number(s): 6178512-6178522 UNSPK: 6178512 BKG: 6178512								
Barium	94 (2)	54 (2)	75-125	3	20	102	92.2	10	20
Batch number: 110065708002	Sample number(s): 6178512-6178522 UNSPK: 6178512 BKG: 6178512								
Aluminum	225 (2)	1269 (2)	75-125	12	20	15,300	15,500	1	20
Boron	99	99	84-115	1	20	0.873 U	0.873 U	0 (1)	20
Calcium	221 (2)	181 (2)	75-125	6	20	1,970	2,190	11	20
Iron	473 (2)	989 (2)	75-125	3	20	16,300	16,900	4	20
Lithium	101	102	82-114	0	20	15.9	16.9	6	20
Magnesium	284 (2)	199 (2)	75-125	4	20	3,460	3,720	7	20
Manganese	187 (2)	889 (2)	75-125	65*	20	260	276	6	20
Phosphorus	160*	104	75-125	15	20	238	252	6	20
Potassium	150*	150*	75-125	0	20	2,220	2,450	10	20
Sodium	105	101	75-125	4	20	109	117	6 (1)	20
Strontium	99	101	75-115	0	20	18.1	18.2	0	20
Tin	93	93	80-110	1	20	2.09 J	2.13 J	2 (1)	20
Titanium	226 (2)	225 (2)	75-125	0	20	1,180	1,200	2	20
Zirconium	98	98	75-125	1	20	1.95 J	2.44 J	23* (1)	20
Batch number: 110065711001	Sample number(s): 6178512-6178522 UNSPK: 6178512 BKG: 6178512								
Mercury	99	99	65-135	0	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 11014102201A	Sample number(s): 6178518-6178519 UNSPK: P177800 BKG: P177800								
21a Cyanide by 9012B	96		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11017017201A	Sample number(s): 6178512 UNSPK: P173166 BKG: P173166								
7a Perchlorate EPA 314.0	95		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11017017201B	Sample number(s): 6178513-6178522 UNSPK: 6178513 BKG: 6178513								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11017017202A	Sample number(s): 6178512 UNSPK: P177800 BKG: P177800								
11a Anions by 300.0 - Fluoride	74*		80-120			2.6	3.6	30* (1)	20
Batch number: 11017017202B	Sample number(s): 6178513-6178522 UNSPK: 6178513 BKG: 6178513								
11a Anions by 300.0 - Fluoride	93		80-120			1.7	1.9	8 (1)	20
11a Anions by 300.0 - Nitrate	76*		80-120			2.7	1.8	39* (1)	20
Batch number: 11018243201A	Sample number(s): 6178512-6178522 UNSPK: 6178522 BKG: 6178522								
3a Cr VI by EPA 7199	96		75-125			0.36 J	0.52 J	36* (1)	20
Batch number: 11019621701A	Sample number(s): 6178511 UNSPK: P177278 BKG: P177278								
7b Perchlorate EPA 314.0	96		80-120			0.70 U	0.70 U	0 (1)	15

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11007039401A 22a pH by 9045C			Sample number(s): 6178512-6178520			BKG: 6178520 7.65	7.65	0	1
Batch number: 11007039401B 22a pH by 9045C			Sample number(s): 6178521-6178522			BKG: 6178522 7.19	7.19	0	1
Batch number: 11007182101A Oxidation Reduction Potential			Sample number(s): 6178512-6178520			BKG: 6178520 516	515	0	6
Batch number: 11007182101B Oxidation Reduction Potential			Sample number(s): 6178521-6178522			BKG: 6178522 433	433	0	6
Batch number: 11012162401B 28a Moisture Content by 160.3			Sample number(s): 6178512-6178517, 6178520-6178522			BKG: P179369 9.2	9.0	1	20
Batch number: 11019162401A 28a Moisture Content by 160.3			Sample number(s): 6178518-6178519			BKG: P183549 13.8	13.9	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B110071AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6178513	109	108	95	90
6178514	105	106	95	87
6178516	111	110	94	87
6178517	110	112	94	88
6178518	110	106	95	88
6178519	107	107	95	88
6178520	111	111	94	88
6178521	112	114	95	88
Blank	108	105	95	89
LCS	102	104	101	101
MS	105	105	102	101
MSD	103	103	101	98
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110071AA
Toluene-d8

6178513	99
6178514	100
6178516	101
6178517	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Surrogate Quality Control

6178518 99
6178519 99
6178520 101
6178521 100
Blank 102
LCS 102
LCSD 101
MS 99
MSD 98

Limits: 70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110101AA
Toluene-d8

6178523 101
Blank 101
LCS 100
LCSD 100

Limits: 80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110101AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6178523	103	100	99	100
Blank	104	101	99	100
LCS	103	105	100	101
LCSD	104	104	100	101

Limits: 86-118 80-120 88-110 86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11006SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6178512	91	88	95	73	81	86
6178513	88	86	91	76	82	80
6178514	90	88	92	77	85	85
6178515	90	89	91	77	85	86
6178516	92	93	91	80	88	82
6178517	87	85	85	76	83	79
6178518	88	88	92	77	86	108
6178519	90	89	82	76	84	89
6178520	89	89	73	73	81	85
6178521	90	90	86	78	87	83
6178522	85	84	79	72	81	81
Blank	85	86	105	80	93	90
LCS	90	90	108	90	95	89
MS	84	84	99	84	88	85
MSD	88	88	103	86	90	85

Limits: 25-120 25-130 35-130 40-130 45-130 45-135

Analysis Name: 4a Select SVOC EPA 8270SIM

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Surrogate Quality Control

Batch number: 11006SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6178512	96	90	81
6178513	102	89	93
6178514	95	95	93
6178515	94	89	89
6178516	91	87	90
6178517	77	69	79
6178518	90	85	89
6178519	92	84	90
6178520	101	87	94
6178521	93	88	89
6178522	89	90	80
Blank	78	80	87
LCS	97	106	95
MS	100	98	90
MSD	99	90	84

Limits: 40-130 45-130 45-135

Analysis Name: 4b Select SVOC EPA 8270SIM

Batch number: 11008WAB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6178511	89	90	85
Blank	88	79	84
LCS	104	94	95
LCSD	105	92	92

Limits: 40-130 45-130 45-135

Analysis Name: 5b Semivolatiles by EPA 8270C

Batch number: 11010WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6178511	47	30	90	87	88	83
Blank	51	33	96	88	89	83
LCS	62	41	96	92	93	84
LCSD	61	40	95	92	93	86

Limits: 20-130 20-120 30-130 40-130 45-130 45-135

Analysis Name: 19a NDMA by 1625C

Batch number: 11011SLB026

N-Nitrosodimethylamine-d6

6178518	128
6178519	112
Blank	131
LCS	112
MS	139
MSD	102

Limits: 50-150

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Surrogate Quality Control

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11007A20A
Trifluorotoluene-F

6178523	96
Blank	96
LCS	119
LCSD	122

Limits: 63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11010A34A
Trifluorotoluene-F

6178518	79
6178519	84
Blank	86
LCS	91
LCSD	96

Limits: 61-122

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 110060007A
2,4-Dichlorophenylacetic acid

6178512	127
6178522	129
Blank	83
LCS	97
MS	85
MSD	87

Limits: 36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110080006A
Tetrachloro-m-xylene Decachlorobiphenyl

6178512	98	89
6178513	103	100
6178514	94	105
6178515	88	103
6178516	85	116
6178517	92	103
6178518	102	119
6178519	85	108
6178520	88	109
6178521	84	109
6178522	77	71
Blank	88	108
LCS	90	112
LCSD	88	111
MS	91	110
MSD	92	109

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Surrogate Quality Control

Limits: 53-139 45-120

Analysis Name: 8b PCBs/PCTs by 8082

Batch number: 110100018A

Tetrachloro-m-xylene Decachlorobiphenyl

6178511	94	86
Blank	109	81
LCS	108	91
LCSD	95	86

Limits: 30-150 45-120

Analysis Name: 17a Formaldehyde by 8315A

Batch number: 110100020A

Butyraldehyde

6178518	84
6178519	90
Blank	99
LCS	103
MS	102
MSD	103

Limits: 64-126

Analysis Name: 20a Energetics by 8330A

Batch number: 110110003A

2-Nitro-m-xylene

6178518	116
6178519	121
Blank	119
LCS	121
LCSD	120
MS	118
MSD	114

Limits: 80-146

Analysis Name: 12a Pesticides by 8081A

Batch number: 110170031A

Tetrachloro-m-xylene Decachlorobiphenyl

6178512	100	84
6178522	74	156*
Blank	91	105
LCS	92	106
MS	83	74
MSD	91	82

Limits: 50-130 20-120

Analysis Name: 25a Alcohols by 8015B

Batch number: 110060008A

Acetone

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/07/11 at 10:19 AM

Group Number: 1228000

Surrogate Quality Control

6178518	95
6178519	93
Blank	106
LCS	102
MS	112
MSD	114

Limits: 42-138

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110100011A
n-Triacontane-d62

6178518	95
6178519	102
Blank	130
LCS	104
MS	101
MSD	100

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110130009A
Chlorobenzene Orthoterphenyl

6178518	83	82
6178519	92	89
Blank	86	82
LCS	85	84
MS	88	87
MSD	86	85

Limits: 37-125 47-145

Analysis Name: 27a Glycols by 8015B
Batch number: 110180028A
Tetramethylene glycol

6178518	99
6178519	103
Blank	98
LCS	104
MS	110
MSD	99

Limits: 29-137

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

CHAIN OF CUSTODY RECORD

[illegible]

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns $>25\%$
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is $<CRDL$, but $\geq IDL$
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 25, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 02/05/2011

Group Number: 1231921

SDG: DE076

PO Number: 1203-004-007-AL

Release Number: Tracking #11667

State of Sample Origin: CA

Client Sample DescriptionSL-041-SA5C-SB-4.0-5.0 Soil
SL-159-SA5B-SB-4.0-5.0 Soil
SL-159-SA5B-SB-8.0-9.0 Soil
SL-165-SA5B-SB-4.0-5.0 Soil
SL-272-SA5B-SB-4.0-5.0 Soil
SL-273-SA5B-SB-2.0-3.0 Soil
TB-020411 WaterLancaster Labs (LLI) #6199403
6199404
6199405
6199406
6199407
6199408
6199409

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC
COPY TO
1 COPY TOCDM Federal Services Program
Data Package Group

Attn: Todd Burgess

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Matthew E. Barton
Senior Specialist

Sample Description: SL-041-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199403
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7601 SDG#: DE076-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2 U	6.2	7.5	0.82
06192	Benzene	71-43-2	0.09 U	0.09	3.7	0.82
06192	Bromobenzene	108-86-1	0.12 U	0.12	3.7	0.82
06192	Bromochloromethane	74-97-5	0.31 U	0.31	3.7	0.82
06192	Bromodichloromethane	75-27-4	0.07 U	0.07	3.7	0.82
06192	Bromoform	75-25-2	0.37 U	0.37	3.7	0.82
06192	Bromomethane	74-83-9	0.23 U	0.23	3.7	0.82
06192	2-Butanone	78-93-3	1.1 U	1.1	7.5	0.82
06192	n-Butylbenzene	104-51-8	0.11 U	0.11	3.7	0.82
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.7	0.82
06192	tert-Butylbenzene	98-06-6	0.15 U	0.15	3.7	0.82
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.7	0.82
06192	Chlorobenzene	108-90-7	0.10 U	0.10	3.7	0.82
06192	Chloroethane	75-00-3	0.12 U	0.12	3.7	0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28 U	0.28	3.7	0.82
06192	Chloroform	67-66-3	0.11 U	0.11	3.7	0.82
06192	Chloromethane	74-87-3	0.31 U	0.31	3.7	0.82
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.7	0.82
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.7	0.82
06192	Chlorotrifluoroethene	79-38-9	0.47 U	0.47	4.7	0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65 U	0.65	3.7	0.82
06192	Dibromochloromethane	124-48-1	0.19 U	0.19	3.7	0.82
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.7	0.82
06192	Dibromomethane	74-95-3	0.22 U	0.22	3.7	0.82
06192	1,2-Dichlorobenzene	95-50-1	0.08 U	0.08	3.7	0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11 U	0.11	3.7	0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	3.7	0.82
06192	Dichlorodifluoromethane	75-71-8	0.11 U	0.11	3.7	0.82
06192	1,1-Dichloroethane	75-34-3	0.09 U	0.09	3.7	0.82
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.7	0.82
06192	1,1-Dichloroethene	75-35-4	0.36 U	0.36	3.7	0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.18 U	0.18	3.7	0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11 U	0.11	3.7	0.82
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.7	0.82
06192	1,3-Dichloropropane	142-28-9	0.07 U	0.07	3.7	0.82
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.7	0.82
06192	1,1-Dichloropropene	563-58-6	0.12 U	0.12	3.7	0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15 U	0.15	3.7	0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.7	0.82
06192	Ethylbenzene	100-41-4	0.25 J	0.06	3.7	0.82
06192	Freon 113	76-13-1	0.10 U	0.10	3.7	0.82
06192	Freon 133a	75-88-7	0.47 U	0.47	4.7	0.82
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.7	0.82
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.5	0.82
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.7	0.82
06192	p-Isopropyltoluene	99-87-6	0.10 U	0.10	3.7	0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20 U	0.20	3.7	0.82
06192	4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	7.5	0.82
06192	Methylene Chloride	75-09-2	0.39 J	0.22	3.7	0.82
06192	n-Propylbenzene	103-65-1	0.06 U	0.06	3.7	0.82

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199403
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7601 SDG#: DE076-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.09 U	0.09	3.7	0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10 U	0.10	3.7	0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21 U	0.21	3.7	0.82
06192	Tetrachloroethene	127-18-4	0.19 U	0.19	3.7	0.82
06192	Toluene	108-88-3	0.07 U	0.07	3.7	0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13	3.7	0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.17 U	0.17	3.7	0.82
06192	1,1,1-Trichloroethane	71-55-6	0.19 U	0.19	3.7	0.82
06192	1,1,2-Trichloroethane	79-00-5	0.25 U	0.25	3.7	0.82
06192	Trichloroethene	79-01-6	0.14 U	0.14	3.7	0.82
06192	Trichlorofluoromethane	75-69-4	0.27 U	0.27	3.7	0.82
06192	1,2,3-Trichloropropane	96-18-4	0.31 U	0.31	3.7	0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.37 U	0.37	3.7	0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09 U	0.09	3.7	0.82
06192	Vinyl Chloride	75-01-4	0.19 U	0.19	3.7	0.82
06192	m+p-Xylene	179601-23-1	0.82 J	0.16	3.7	0.82
06192	o-Xylene	95-47-6	0.16 U	0.16	3.7	0.82
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-Dichloropropene						
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.6 U	4.6	14	20.33
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190 U	190	570	1
04688	Benidine	92-87-5	1,300 U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190 U	190	570	1
04688	Benzyl alcohol	100-51-6	190 U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19 U	19	190	1
04688	Carbazole	86-74-8	19 U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38 U	38	190	1
04688	4-Chloroaniline	106-47-8	76 U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19 U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19 U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19 U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19 U	19	190	1
04688	2-Chlorophenol	95-57-8	19 U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38 U	38	190	1
04688	Dibenzofuran	132-64-9	19 U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19 U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19 U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19 U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19 U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38 U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38 U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190 U	190	570	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199403
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7601 SDG#: DE076-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	760	U 760	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U 76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	76	U 76	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	570	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	1.2	J 0.76	1.9	1
10138	Acenaphthylene	208-96-8	1.2	J 0.38	1.9	1
10138	Anthracene	120-12-7	1.2	J 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	1.6	J 0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	1.3	J 0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J 0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J 0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J 0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U 6.8	21	1
10138	Di-n-butylphthalate	84-74-2	6.8	U 6.8	21	1
10138	Chrysene	218-01-9	1.6	J 0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	1.3	J 0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U 6.8	21	1
10138	Dimethylphthalate	131-11-3	6.8	U 6.8	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U 6.8	21	1
10138	Fluoranthene	206-44-0	1.6	J 0.76	1.9	1
10138	Fluorene	86-73-7	1.4	J 0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199403
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7601 SDG#: DE076-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3 J	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	1.1 J	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	1.0 J	0.76	1.9	1
10138	Naphthalene	91-20-3	1.0 J	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	21	1
10138	Phenanthrene	85-01-8	1.6 J	0.76	1.9	1
10138	Pyrene	129-00-0	1.6 J	0.76	1.9	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38 U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38 U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38 U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38 U	0.38	1.9	1
10225	PCB-1254	11097-69-1	23	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.44 U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	1.9	1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	31,100	5.68	22.6	1
07914	Boron	7440-42-8	1.00 U	1.00	5.64	1
01650	Calcium	7440-70-2	3,750	6.92	22.6	1
01654	Iron	7439-89-6	35,000	26.6	113	5
01656	Lithium	7439-93-2	35.4	0.25	2.3	1
01657	Magnesium	7439-95-4	7,140	2.87	11.3	1
06958	Manganese	7439-96-5	441	0.0881	0.564	1
10145	Phosphorus	7723-14-0	228	0.632	11.3	1
01662	Potassium	7440-09-7	2,390	20.3	56.4	1
01667	Sodium	7440-23-5	141	42.1	113	1
07968	Strontium	7440-24-6	30.7	0.0700	0.564	1
06969	Tin	7440-31-5	3.36 J	1.13	11.3	1
06970	Titanium	7440-32-6	1,580	0.429	1.13	1
10146	Zirconium	7440-67-7	2.34 J	0.948	5.64	1
SW-846 6020						
06124	Antimony	7440-36-0	0.174 J	0.0658	0.219	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.29	0.0877	0.439	2
06126	Barium	7440-39-3	124	0.118	0.439	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199403
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7601 SDG#: DE076-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	
06127	Beryllium	7440-41-7	0.996	0.0175	0.110	2
06128	Cadmium	7440-43-9	0.0867 J	0.0439	0.110	2
06131	Chromium	7440-47-3	30.4	0.132	0.439	2
06132	Cobalt	7440-48-4	9.15	0.0219	0.110	2
06133	Copper	7440-50-8	12.8	0.0724	0.439	2
06135	Lead	7439-92-1	10.1	0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.449	0.0548	0.110	2
06139	Nickel	7440-02-0	16.4	0.110	0.439	2
06141	Selenium	7782-49-2	0.101 J	0.0439	0.439	2
06142	Silver	7440-22-4	0.0463 J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.367	0.0329	0.110	2
06148	Vanadium	7440-62-2	56.6	0.0241	0.110	2
06149	Zinc	7440-66-6	66.0	0.614	3.29	2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108	1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.91	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
		ASTM D1498	mV	mV	mV	
01821	32a OR Potential	n.a.	439	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.82	0.0100	0.0100	1
Wet Chemistry		EPA 160.3 modified	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-041-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199403
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7601 SDG#: DE076-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-041-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 18:18	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 15:26	Jason M Long	20.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103623646	02/05/2011 12:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201103623646	02/05/2011 13:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201103623646	02/05/2011 13:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103623646	02/05/2011 12:46	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 06:10	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11039SLB026	02/10/2011 14:57	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11039SLB026	02/09/2011 02:45	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/23/2011 23:49	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110385708001	02/13/2011 22:44	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110385708001	02/09/2011 22:45	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110381026001A	02/22/2011 09:19	David K Beck	2
06125	Arsenic	SW-846 6020	1	110381026001A	02/22/2011 09:19	David K Beck	2
06126	Barium	SW-846 6020	1	110381026001D	02/22/2011 09:19	David K Beck	2
06127	Beryllium	SW-846 6020	1	110381026001A	02/22/2011 09:19	David K Beck	2
06128	Cadmium	SW-846 6020	1	110381026001A	02/22/2011 14:58	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110381026001A	02/22/2011 14:58	Parker D Lindstrom	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SB-4.0-5.0

LLI Sample # SW 6199403
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 09:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7601 SDG#: DE076-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110381026001A	02/22/2011 14:58	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110381026001A	02/22/2011 14:58	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110381026001A	02/22/2011 09:19	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110381026001C	02/22/2011 09:19	David K Beck	2
06139	Nickel	SW-846 6020	1	110381026001A	02/22/2011 14:58	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110381026001B	02/22/2011 09:19	David K Beck	2
06142	Silver	SW-846 6020	1	110381026001A	02/22/2011 09:19	David K Beck	2
06145	Thallium	SW-846 6020	1	110381026001A	02/22/2011 09:19	David K Beck	2
06148	Vanadium	SW-846 6020	1	110381026001A	02/22/2011 14:58	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110381026001A	02/22/2011 09:19	David K Beck	2
00159	Mercury	SW-846 7471A	1	110385711001	02/08/2011 08:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110385708001	02/07/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110381026001	02/07/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110385711001	02/07/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203B	02/12/2011 22:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 01:15	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 04:26	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203B	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102A	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402A	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

Sample Description: SL-159-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199404
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7602 SDG#: DE076-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2 U	6.2	7.4	0.81
06192	Benzene	71-43-2	0.09 U	0.09	3.7	0.81
06192	Bromobenzene	108-86-1	0.12 U	0.12	3.7	0.81
06192	Bromochloromethane	74-97-5	0.30 U	0.30	3.7	0.81
06192	Bromodichloromethane	75-27-4	0.07 U	0.07	3.7	0.81
06192	Bromoform	75-25-2	0.37 U	0.37	3.7	0.81
06192	Bromomethane	74-83-9	0.23 U	0.23	3.7	0.81
06192	2-Butanone	78-93-3	1.1 U	1.1	7.4	0.81
06192	n-Butylbenzene	104-51-8	0.11 U	0.11	3.7	0.81
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.7	0.81
06192	tert-Butylbenzene	98-06-6	0.15 U	0.15	3.7	0.81
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.7	0.81
06192	Chlorobenzene	108-90-7	0.10 U	0.10	3.7	0.81
06192	Chloroethane	75-00-3	0.12 U	0.12	3.7	0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28 U	0.28	3.7	0.81
06192	Chloroform	67-66-3	0.11 U	0.11	3.7	0.81
06192	Chloromethane	74-87-3	0.30 U	0.30	3.7	0.81
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.7	0.81
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.7	0.81
06192	Chlorotrifluoroethene	79-38-9	0.46 U	0.46	4.6	0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65 U	0.65	3.7	0.81
06192	Dibromochloromethane	124-48-1	0.18 U	0.18	3.7	0.81
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.7	0.81
06192	Dibromomethane	74-95-3	0.22 U	0.22	3.7	0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08 U	0.08	3.7	0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11 U	0.11	3.7	0.81
06192	1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	3.7	0.81
06192	Dichlorodifluoromethane	75-71-8	0.11 U	0.11	3.7	0.81
06192	1,1-Dichloroethane	75-34-3	0.09 U	0.09	3.7	0.81
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.7	0.81
06192	1,1-Dichloroethene	75-35-4	0.36 U	0.36	3.7	0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.17 U	0.17	3.7	0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11 U	0.11	3.7	0.81
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.7	0.81
06192	1,3-Dichloropropane	142-28-9	0.07 U	0.07	3.7	0.81
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.7	0.81
06192	1,1-Dichloropropene	563-58-6	0.12 U	0.12	3.7	0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.15 U	0.15	3.7	0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.7	0.81
06192	Ethylbenzene	100-41-4	0.08 J	0.06	3.7	0.81
06192	Freon 113	76-13-1	0.10 U	0.10	3.7	0.81
06192	Freon 133a	75-88-7	0.46 U	0.46	4.6	0.81
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.7	0.81
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.4	0.81
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.7	0.81
06192	p-Isopropyltoluene	99-87-6	0.10 U	0.10	3.7	0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19 U	0.19	3.7	0.81
06192	4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	7.4	0.81
06192	Methylene Chloride	75-09-2	0.32 J	0.22	3.7	0.81
06192	n-Propylbenzene	103-65-1	0.06 U	0.06	3.7	0.81

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199404
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7602 SDG#: DE076-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.09 U	0.09	3.7	0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10 U	0.10	3.7	0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21 U	0.21	3.7	0.81
06192	Tetrachloroethene	127-18-4	0.18 U	0.18	3.7	0.81
06192	Toluene	108-88-3	0.07 U	0.07	3.7	0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13	3.7	0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.17 U	0.17	3.7	0.81
06192	1,1,1-Trichloroethane	71-55-6	0.18 U	0.18	3.7	0.81
06192	1,1,2-Trichloroethane	79-00-5	0.25 U	0.25	3.7	0.81
06192	Trichloroethene	79-01-6	0.14 U	0.14	3.7	0.81
06192	Trichlorofluoromethane	75-69-4	0.27 U	0.27	3.7	0.81
06192	1,2,3-Trichloropropane	96-18-4	0.30 U	0.30	3.7	0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.37 U	0.37	3.7	0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09 U	0.09	3.7	0.81
06192	Vinyl Chloride	75-01-4	0.18 U	0.18	3.7	0.81
06192	m+p-Xylene	179601-23-1	0.30 J	0.16	3.7	0.81
06192	o-Xylene	95-47-6	0.16 U	0.16	3.7	0.81
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-Dichloropropene						
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.7 U	4.7	14	20.73
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190 U	190	570	1
04688	Benidine	92-87-5	1,300 U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190 U	190	570	1
04688	Benzyl alcohol	100-51-6	190 U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19 U	19	190	1
04688	Carbazole	86-74-8	19 U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38 U	38	190	1
04688	4-Chloroaniline	106-47-8	76 U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19 U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19 U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19 U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19 U	19	190	1
04688	2-Chlorophenol	95-57-8	19 U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38 U	38	190	1
04688	Dibenzofuran	132-64-9	19 U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19 U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19 U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19 U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19 U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38 U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38 U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190 U	190	570	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199404
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7602 SDG#: DE076-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	760	U 760	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U 76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	76	U 76	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	570	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.3	0.76	1.9	1
10138	Acenaphthylene	208-96-8	3.1	0.38	1.9	1
10138	Anthracene	120-12-7	4.1	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	4.8	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	4.3	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	4.7	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	4.7	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	4.8	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	8.7	J 6.8	20	1
10138	Di-n-butylphthalate	84-74-2	8.9	J 6.8	20	1
10138	Chrysene	218-01-9	4.9	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	4.5	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U 6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U 6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J 6.8	20	1
10138	Fluoranthene	206-44-0	4.3	0.76	1.9	1
10138	Fluorene	86-73-7	4.0	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199404
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7602 SDG#: DE076-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.4	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	2.6	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	2.3	0.76	1.9	1
10138	Naphthalene	91-20-3	2.2	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	1.3 J	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	10 J	6.8	20	1
10138	Phenanthrene	85-01-8	4.3	0.76	1.9	1
10138	Pyrene	129-00-0	4.7	0.76	1.9	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs		SW-846 8082	ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Metals		SW-846 6010B	mg/kg		mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,200		5.65	22.5	1
07914	Boron	7440-42-8	0.999	U	0.999	5.61	1
01650	Calcium	7440-70-2	2,970		6.88	22.5	1
01654	Iron	7439-89-6	28,300		5.29	22.5	1
01656	Lithium	7439-93-2	36.1		0.25	2.2	1
01657	Magnesium	7439-95-4	5,550		2.85	11.2	1
06958	Manganese	7439-96-5	245		0.0876	0.561	1
10145	Phosphorus	7723-14-0	133		0.629	11.2	1
01662	Potassium	7440-09-7	2,030		20.2	56.1	1
01667	Sodium	7440-23-5	110	J	41.9	112	1
07968	Strontium	7440-24-6	23.5		0.0696	0.561	1
06969	Tin	7440-31-5	2.88	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,540		0.427	1.12	1
10146	Zirconium	7440-67-7	2.52	J	0.943	5.61	1

SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.105 J	0.0667	0.222
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
					2

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199404
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7602 SDG#: DE076-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06125	Arsenic	7440-38-2	10.7	0.0889	0.445	2
06126	Barium	7440-39-3	93.9	0.120	0.445	2
06127	Beryllium	7440-41-7	0.628	0.0178	0.111	2
06128	Cadmium	7440-43-9	0.0617 J	0.0445	0.111	2
06131	Chromium	7440-47-3	23.1	0.133	0.445	2
06132	Cobalt	7440-48-4	4.78	0.0222	0.111	2
06133	Copper	7440-50-8	7.69	0.0734	0.445	2
06135	Lead	7439-92-1	5.82	0.0116	0.222	2
06138	Molybdenum	7439-98-7	0.246	0.0556	0.111	2
06139	Nickel	7440-02-0	13.1	0.111	0.445	2
06141	Selenium	7782-49-2	0.0445 U	0.0445	0.445	2
06142	Silver	7440-22-4	0.0965 J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.232	0.0333	0.111	2
06148	Vanadium	7440-62-2	39.7	0.0245	0.111	2
06149	Zinc	7440-66-6	45.2	0.622	3.33	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0054 J	0.0031	0.108	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	0.91	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.0	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	ASTM D1498		mV	mV	mV	
01821	32a OR Potential	n.a.	474	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.86	0.0100	0.0100	1
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

Sample Description: SL-159-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199404
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7602 SDG#: DE076-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-159-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 18:41	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 15:46	Jason M Long	20.73
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103623646	02/05/2011 12:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201103623646	02/05/2011 13:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201103623646	02/05/2011 13:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103623646	02/05/2011 12:48	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 07:30	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11039SLB026	02/11/2011 01:46	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11039SLB026	02/09/2011 02:45	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/24/2011 00:07	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110385708001	02/09/2011 23:09	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110381026001A	02/22/2011 09:37	David K Beck	2
06125	Arsenic	SW-846 6020	1	110381026001A	02/22/2011 09:37	David K Beck	2
06126	Barium	SW-846 6020	1	110381026001D	02/22/2011 09:37	David K Beck	2
06127	Beryllium	SW-846 6020	1	110381026001A	02/22/2011 09:37	David K Beck	2
06128	Cadmium	SW-846 6020	1	110381026001A	02/22/2011 15:09	Parker D Lindstrom	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-4.0-5.0

LLI Sample # SW 6199404
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:35

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 02/05/2011 11:00

Suite 210

Reported: 02/25/2011 14:47

Chantilly VA 20151

E7602 SDG#: DE076-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110381026001A	02/22/2011 15:09	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110381026001A	02/22/2011 15:09	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110381026001A	02/22/2011 15:09	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110381026001A	02/22/2011 09:37	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110381026001C	02/22/2011 09:37	David K Beck	2
06139	Nickel	SW-846 6020	1	110381026001A	02/22/2011 15:09	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110381026001B	02/22/2011 09:37	David K Beck	2
06142	Silver	SW-846 6020	1	110381026001A	02/22/2011 09:37	David K Beck	2
06145	Thallium	SW-846 6020	1	110381026001A	02/22/2011 09:37	David K Beck	2
06148	Vanadium	SW-846 6020	1	110381026001A	02/22/2011 15:09	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110381026001A	02/22/2011 09:37	David K Beck	2
00159	Mercury	SW-846 7471A	1	110385711001	02/08/2011 08:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110385708001	02/07/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110381026001	02/07/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110385711001	02/07/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203B	02/12/2011 23:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 02:27	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 05:22	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203B	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102A	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402A	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

Sample Description: SL-159-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199405
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7603 SDG#: DE076-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8 U	7.8	9.4	0.96
06192	Benzene	71-43-2	0.12 U	0.12	4.7	0.96
06192	Bromobenzene	108-86-1	0.15 U	0.15	4.7	0.96
06192	Bromochloromethane	74-97-5	0.39 U	0.39	4.7	0.96
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.7	0.96
06192	Bromoform	75-25-2	0.47 U	0.47	4.7	0.96
06192	Bromomethane	74-83-9	0.29 U	0.29	4.7	0.96
06192	2-Butanone	78-93-3	1.4 U	1.4	9.4	0.96
06192	n-Butylbenzene	104-51-8	0.14 U	0.14	4.7	0.96
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.7	0.96
06192	tert-Butylbenzene	98-06-6	0.19 U	0.19	4.7	0.96
06192	Carbon Tetrachloride	56-23-5	0.16 U	0.16	4.7	0.96
06192	Chlorobenzene	108-90-7	0.13 U	0.13	4.7	0.96
06192	Chloroethane	75-00-3	0.15 U	0.15	4.7	0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35 U	0.35	4.7	0.96
06192	Chloroform	67-66-3	0.14 U	0.14	4.7	0.96
06192	Chloromethane	74-87-3	0.39 U	0.39	4.7	0.96
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.7	0.96
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.7	0.96
06192	Chlorotrifluoroethene	79-38-9	0.59 U	0.59	5.9	0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.82 U	0.82	4.7	0.96
06192	Dibromochloromethane	124-48-1	0.23 U	0.23	4.7	0.96
06192	1,2-Dibromoethane	106-93-4	0.20 U	0.20	4.7	0.96
06192	Dibromomethane	74-95-3	0.28 U	0.28	4.7	0.96
06192	1,2-Dichlorobenzene	95-50-1	0.11 U	0.11	4.7	0.96
06192	1,3-Dichlorobenzene	541-73-1	0.14 U	0.14	4.7	0.96
06192	1,4-Dichlorobenzene	106-46-7	0.19 U	0.19	4.7	0.96
06192	Dichlorodifluoromethane	75-71-8	0.14 U	0.14	4.7	0.96
06192	1,1-Dichloroethane	75-34-3	0.12 U	0.12	4.7	0.96
06192	1,2-Dichloroethane	107-06-2	0.18 U	0.18	4.7	0.96
06192	1,1-Dichloroethene	75-35-4	0.46 U	0.46	4.7	0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.22 U	0.22	4.7	0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.14 U	0.14	4.7	0.96
06192	1,2-Dichloropropane	78-87-5	0.20 U	0.20	4.7	0.96
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.7	0.96
06192	2,2-Dichloropropane	594-20-7	0.20 U	0.20	4.7	0.96
06192	1,1-Dichloropropene	563-58-6	0.15 U	0.15	4.7	0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.19 U	0.19	4.7	0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	4.7	0.96
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.7	0.96
06192	Freon 113	76-13-1	0.13 U	0.13	4.7	0.96
06192	Freon 133a	75-88-7	0.59 U	0.59	5.9	0.96
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.7	0.96
06192	2-Hexanone	591-78-6	1.9 U	1.9	9.4	0.96
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.7	0.96
06192	p-Isopropyltoluene	99-87-6	0.13 U	0.13	4.7	0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25 U	0.25	4.7	0.96
06192	4-Methyl-2-pentanone	108-10-1	0.46 U	0.46	9.4	0.96
06192	Methylene Chloride	75-09-2	0.48 J	0.28	4.7	0.96
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.7	0.96

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199405
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7603 SDG#: DE076-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.12 U	0.12	4.7	0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13 U	0.13	4.7	0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	4.7	0.96
06192	Tetrachloroethene	127-18-4	0.23 U	0.23	4.7	0.96
06192	Toluene	108-88-3	0.11 J	0.09	4.7	0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	4.7	0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.21 U	0.21	4.7	0.96
06192	1,1,1-Trichloroethane	71-55-6	0.23 U	0.23	4.7	0.96
06192	1,1,2-Trichloroethane	79-00-5	0.32 U	0.32	4.7	0.96
06192	Trichloroethene	79-01-6	0.18 U	0.18	4.7	0.96
06192	Trichlorofluoromethane	75-69-4	0.34 U	0.34	4.7	0.96
06192	1,2,3-Trichloropropane	96-18-4	0.39 U	0.39	4.7	0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.47 U	0.47	4.7	0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.12 U	0.12	4.7	0.96
06192	Vinyl Chloride	75-01-4	0.23 U	0.23	4.7	0.96
06192	m+p-Xylene	179601-23-1	0.20 U	0.20	4.7	0.96
06192	o-Xylene	95-47-6	0.20 U	0.20	4.7	0.96
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-Dichloropropene						
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	5.4 U	5.4	16	22.12
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	200 U	200	610	1
04688	Benidine	92-87-5	1,400 U	1,400	4,100	1
04688	Benzoic acid	65-85-0	200 U	200	610	1
04688	Benzyl alcohol	100-51-6	200 U	200	610	1
04688	4-Bromophenyl-phenylether	101-55-3	20 U	20	200	1
04688	Carbazole	86-74-8	20 U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	41 U	41	200	1
04688	4-Chloroaniline	106-47-8	81 U	81	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20 U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20 U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20 U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20 U	20	200	1
04688	2-Chlorophenol	95-57-8	20 U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	41 U	41	200	1
04688	Dibenzofuran	132-64-9	20 U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20 U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20 U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20 U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120 U	120	410	1
04688	2,4-Dichlorophenol	120-83-2	20 U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	41 U	41	200	1
04688	3,5-Dimethylphenol	108-68-9	41 U	41	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200 U	200	610	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199405
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7603 SDG#: DE076-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	810	U 810	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	41	U 41	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U 20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U 20	200	1
04688	Hexachlorobenzene	118-74-1	20	U 20	200	1
04688	Hexachlorobutadiene	87-68-3	81	U 81	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U 200	610	1
04688	Hexachloroethane	67-72-1	20	U 20	200	1
04688	Isophorone	78-59-1	20	U 20	200	1
04688	2-Methylphenol	95-48-7	41	U 41	200	1
04688	4-Methylphenol	106-44-5	41	U 41	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	20	U 20	200	1
04688	3-Nitroaniline	99-09-2	41	U 41	200	1
04688	4-Nitroaniline	100-01-6	81	U 81	200	1
04688	Nitrobenzene	98-95-3	20	U 20	200	1
04688	2-Nitrophenol	88-75-5	20	U 20	200	1
04688	4-Nitrophenol	100-02-7	200	U 200	610	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U 20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U 20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	200	U 200	610	1
04688	Phenol	108-95-2	20	U 20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U 20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	41	U 41	200	1
04688	2,4,6-Trichlorophenol	88-06-2	41	U 41	200	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.81	U 0.81	2.0	1
10138	Acenaphthylene	208-96-8	0.41	U 0.41	2.0	1
10138	Anthracene	120-12-7	0.41	U 0.41	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.81	U 0.81	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.81	U 0.81	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	0.81	U 0.81	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U 0.81	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U 0.81	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.3	U 7.3	22	1
10138	Di-n-butylphthalate	84-74-2	7.3	U 7.3	22	1
10138	Chrysene	218-01-9	0.41	U 0.41	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U 0.81	2.0	1
10138	Diethylphthalate	84-66-2	7.3	U 7.3	22	1
10138	Dimethylphthalate	131-11-3	7.3	U 7.3	22	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.3	J 7.3	22	1
10138	Fluoranthene	206-44-0	0.81	U 0.81	2.0	1
10138	Fluorene	86-73-7	0.81	U 0.81	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199405
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7603 SDG#: DE076-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81 U	0.81	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.81 U	0.81	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.81 U	0.81	2.0	1
10138	Naphthalene	91-20-3	0.81 U	0.81	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.81 U	0.81	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.3 U	7.3	22	1
10138	Phenanthrene	85-01-8	0.81 U	0.81	2.0	1
10138	Pyrene	129-00-0	0.81 U	0.81	2.0	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.2 U	1.2	4.0	1
10225	Aroclor 5442	12642-23-8	1.2 U	1.2	4.0	1
10225	Aroclor 5460	11126-42-4	1.2 U	1.2	4.0	1
10225	PCB-1016	12674-11-2	0.40 U	0.40	2.1	1
10225	PCB-1221	11104-28-2	0.40 U	0.40	2.1	1
10225	PCB-1232	11141-16-5	0.40 U	0.40	2.1	1
10225	PCB-1242	53469-21-9	0.40 U	0.40	2.1	1
10225	PCB-1248	12672-29-6	0.40 U	0.40	2.1	1
10225	PCB-1254	11097-69-1	0.40 U	0.40	2.1	1
10225	PCB-1260	11096-82-5	0.48 U	0.48	2.1	1
10225	PCB-1262	37324-23-5	0.40 U	0.40	2.1	1
10225	PCB-1268	11100-14-4	0.40 U	0.40	2.1	1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	15,500	6.14	24.4	1
07914	Boron	7440-42-8	1.09 J	1.09	6.11	1
01650	Calcium	7440-70-2	2,830	7.48	24.4	1
01654	Iron	7439-89-6	17,800	5.75	24.4	1
01656	Lithium	7439-93-2	35.8	0.27	2.4	1
01657	Magnesium	7439-95-4	5,130	3.10	12.2	1
06958	Manganese	7439-96-5	164	0.0952	0.611	1
10145	Phosphorus	7723-14-0	373	0.684	12.2	1
01662	Potassium	7440-09-7	3,130	22.0	61.1	1
01667	Sodium	7440-23-5	123	45.5	122	1
07968	Strontium	7440-24-6	13.1	0.0757	0.611	1
06969	Tin	7440-31-5	3.20 J	1.22	12.2	1
06970	Titanium	7440-32-6	1,330	0.464	1.22	1
10146	Zirconium	7440-67-7	1.90 J	1.03	6.11	1
SW-846 6020						
06124	Antimony	7440-36-0	0.100 J	0.0733	0.244	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.89	0.0977	0.488	2
06126	Barium	7440-39-3	50.5	0.132	0.488	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199405
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7603 SDG#: DE076-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06127	Beryllium	7440-41-7	0.442	0.0195	0.122	2
06128	Cadmium	7440-43-9	0.0488 U	0.0488	0.122	2
06131	Chromium	7440-47-3	19.1	0.147	0.488	2
06132	Cobalt	7440-48-4	2.96	0.0244	0.122	2
06133	Copper	7440-50-8	6.65	0.0806	0.488	2
06135	Lead	7439-92-1	3.11	0.0127	0.244	2
06138	Molybdenum	7439-98-7	0.218	0.0611	0.122	2
06139	Nickel	7440-02-0	10.9	0.122	0.488	2
06141	Selenium	7782-49-2	0.0488 U	0.0488	0.488	2
06142	Silver	7440-22-4	0.241	0.0147	0.122	2
06145	Thallium	7440-28-0	0.239	0.0366	0.122	2
06148	Vanadium	7440-62-2	26.2	0.0269	0.122	2
06149	Zinc	7440-66-6	53.3	0.684	3.66	2
SW-846 7471A						
			mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0190 J	0.0033	0.116	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0	0.98	1.2	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.0 U	11.0	36.6	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 U	0.24	1.2	1
	ASTM D1498		mV	mV	mV	
01821	32a OR Potential	n.a.	313	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.74	0.0100	0.0100	1
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	18.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

Sample Description: SL-159-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199405
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7603 SDG#: DE076-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-159-SA5B-SB-8.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 19:04	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 16:06	Jason M Long	22.12
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103623646	02/05/2011 12:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201103623646	02/05/2011 13:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201103623646	02/05/2011 13:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103623646	02/05/2011 12:51	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 07:57	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11039SLB026	02/11/2011 02:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11039SLB026	02/09/2011 02:45	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/24/2011 00:26	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110385708001	02/09/2011 23:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
06125	Arsenic	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
06126	Barium	SW-846 6020	1	110381026001D	02/22/2011 09:40	David K Beck	2
06127	Beryllium	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
06131	Chromium	SW-846 6020	1	110381026001A	02/22/2011 15:14	Parker D Lindstrom	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5B-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5B-SB-8.0-9.0

LLI Sample # SW 6199405
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 11:50

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 02/05/2011 11:00

Suite 210

Reported: 02/25/2011 14:47

Chantilly VA 20151

E7603 SDG#: DE076-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	110381026001A	02/22/2011 15:14	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110381026001A	02/22/2011 15:14	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110381026001C	02/22/2011 09:40	David K Beck	2
06139	Nickel	SW-846 6020	1	110381026001A	02/22/2011 15:14	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110381026001B	02/22/2011 09:40	David K Beck	2
06142	Silver	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
06145	Thallium	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
06148	Vanadium	SW-846 6020	1	110381026001A	02/22/2011 15:14	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110381026001A	02/22/2011 09:40	David K Beck	2
00159	Mercury	SW-846 7471A	1	110385711001	02/08/2011 08:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110385708001	02/07/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110381026001	02/07/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110385711001	02/07/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203B	02/13/2011 00:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 03:15	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 05:34	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203B	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102B	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402B	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

Sample Description: SL-165-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199406
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7604 SDG#: DE076-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	5.9 U	5.9	7.1	0.79
06192	Benzene	71-43-2	0.09 U	0.09	3.5	0.79
06192	Bromobenzene	108-86-1	0.12 U	0.12	3.5	0.79
06192	Bromochloromethane	74-97-5	0.29 U	0.29	3.5	0.79
06192	Bromodichloromethane	75-27-4	0.07 U	0.07	3.5	0.79
06192	Bromoform	75-25-2	0.35 U	0.35	3.5	0.79
06192	Bromomethane	74-83-9	0.22 U	0.22	3.5	0.79
06192	2-Butanone	78-93-3	1.1 U	1.1	7.1	0.79
06192	n-Butylbenzene	104-51-8	0.11 U	0.11	3.5	0.79
06192	sec-Butylbenzene	135-98-8	0.05 U	0.05	3.5	0.79
06192	tert-Butylbenzene	98-06-6	0.14 U	0.14	3.5	0.79
06192	Carbon Tetrachloride	56-23-5	0.12 U	0.12	3.5	0.79
06192	Chlorobenzene	108-90-7	0.1 U	0.1	3.5	0.79
06192	Chloroethane	75-00-3	0.12 U	0.12	3.5	0.79
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27 U	0.27	3.5	0.79
06192	Chloroform	67-66-3	0.11 U	0.11	3.5	0.79
06192	Chloromethane	74-87-3	0.29 U	0.29	3.5	0.79
06192	2-Chlorotoluene	95-49-8	0.12 U	0.12	3.5	0.79
06192	4-Chlorotoluene	106-43-4	0.12 U	0.12	3.5	0.79
06192	Chlorotrifluoroethene	79-38-9	0.44 U	0.44	4.4	0.79
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.62 U	0.62	3.5	0.79
06192	Dibromochloromethane	124-48-1	0.18 U	0.18	3.5	0.79
06192	1,2-Dibromoethane	106-93-4	0.15 U	0.15	3.5	0.79
06192	Dibromomethane	74-95-3	0.21 U	0.21	3.5	0.79
06192	1,2-Dichlorobenzene	95-50-1	0.08 U	0.08	3.5	0.79
06192	1,3-Dichlorobenzene	541-73-1	0.11 U	0.11	3.5	0.79
06192	1,4-Dichlorobenzene	106-46-7	0.14 U	0.14	3.5	0.79
06192	Dichlorodifluoromethane	75-71-8	0.11 U	0.11	3.5	0.79
06192	1,1-Dichloroethane	75-34-3	0.09 U	0.09	3.5	0.79
06192	1,2-Dichloroethane	107-06-2	0.13 U	0.13	3.5	0.79
06192	1,1-Dichloroethene	75-35-4	0.35 U	0.35	3.5	0.79
06192	cis-1,2-Dichloroethene	156-59-2	0.17 U	0.17	3.5	0.79
06192	trans-1,2-Dichloroethene	156-60-5	0.11 U	0.11	3.5	0.79
06192	1,2-Dichloropropane	78-87-5	0.15 U	0.15	3.5	0.79
06192	1,3-Dichloropropane	142-28-9	0.07 U	0.07	3.5	0.79
06192	2,2-Dichloropropane	594-20-7	0.15 U	0.15	3.5	0.79
06192	1,1-Dichloropropene	563-58-6	0.12 U	0.12	3.5	0.79
06192	cis-1,3-Dichloropropene	10061-01-5	0.14 U	0.14	3.5	0.79
06192	trans-1,3-Dichloropropene	10061-02-6	0.15 U	0.15	3.5	0.79
06192	Ethylbenzene	100-41-4	0.20 J	0.05	3.5	0.79
06192	Freon 113	76-13-1	0.1 U	0.1	3.5	0.79
06192	Freon 133a	75-88-7	0.44 U	0.44	4.4	0.79
06192	Hexachlorobutadiene	87-68-3	0.12 U	0.12	3.5	0.79
06192	2-Hexanone	591-78-6	1.4 U	1.4	7.1	0.79
06192	Isopropylbenzene	98-82-8	0.05 U	0.05	3.5	0.79
06192	p-Isopropyltoluene	99-87-6	0.1 U	0.1	3.5	0.79
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19 U	0.19	3.5	0.79
06192	4-Methyl-2-pentanone	108-10-1	0.35 U	0.35	7.1	0.79
06192	Methylene Chloride	75-09-2	0.33 J	0.21	3.5	0.79
06192	n-Propylbenzene	103-65-1	0.06 U	0.06	3.5	0.79

*=This limit was used in the evaluation of the final result

Sample Description: SL-165-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199406
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7604 SDG#: DE076-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.09 U	0.09	3.5	0.79
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1 U	0.1	3.5	0.79
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.20 U	0.20	3.5	0.79
06192	Tetrachloroethene	127-18-4	0.18 U	0.18	3.5	0.79
06192	Toluene	108-88-3	0.07 U	0.07	3.5	0.79
06192	1,2,3-Trichlorobenzene	87-61-6	0.12 U	0.12	3.5	0.79
06192	1,2,4-Trichlorobenzene	120-82-1	0.16 U	0.16	3.5	0.79
06192	1,1,1-Trichloroethane	71-55-6	0.18 U	0.18	3.5	0.79
06192	1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	3.5	0.79
06192	Trichloroethene	79-01-6	0.13 U	0.13	3.5	0.79
06192	Trichlorofluoromethane	75-69-4	0.26 U	0.26	3.5	0.79
06192	1,2,3-Trichloropropane	96-18-4	0.29 U	0.29	3.5	0.79
06192	1,2,4-Trimethylbenzene	95-63-6	0.35 U	0.35	3.5	0.79
06192	1,3,5-Trimethylbenzene	108-67-8	0.09 U	0.09	3.5	0.79
06192	Vinyl Chloride	75-01-4	0.18 U	0.18	3.5	0.79
06192	m+p-Xylene	179601-23-1	0.69 J	0.15	3.5	0.79
06192	o-Xylene	95-47-6	0.15 U	0.15	3.5	0.79
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-Dichloropropene						
A surrogate recovery was outside of QC limits for the GC/MS volatile fraction. The analysis was repeated using the remaining sample vial but could not be reported, because the vial leaked during the analysis.						
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.6 U	4.6	14	20.66
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190 U	190	560	1
04688	Benzidine	92-87-5	1,300 U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190 U	190	560	1
04688	Benzyl alcohol	100-51-6	190 U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19 U	19	190	1
04688	Carbazole	86-74-8	19 U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37 U	37	190	1
04688	4-Chloroaniline	106-47-8	75 U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19 U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19 U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19 U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19 U	19	190	1
04688	2-Chlorophenol	95-57-8	19 U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37 U	37	190	1
04688	Dibenzofuran	132-64-9	19 U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19 U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19 U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19 U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110	370	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-165-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199406
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7604 SDG#: DE076-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U 750	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U 75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	37	U 37	190	1
04688	4-Methylphenol	106-44-5	37	U 37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	37	U 37	190	1
04688	4-Nitroaniline	100-01-6	75	U 75	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	560	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U 0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U 0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U 0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U 0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U 0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U 0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20	1
10138	Chrysene	218-01-9	0.37	U 0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U 0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-165-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199406
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7604 SDG#: DE076-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Dimethylphthalate	131-11-3	6.7 U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.6 J	6.7	20	1
10138	Fluoranthene	206-44-0	0.75 U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75 U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75 U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75 U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75 U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75 U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75 U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75 U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75 U	0.75	1.9	1
Perchlorate SW-846 6850 1/2007						
06557	6a Perchlorate EPA 6850	14797-73-0	2.4 U	2.4	5.6	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37 U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37 U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37 U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9	1
10225	PCB-1260	11096-82-5	1.2 J	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9	1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	18,100	5.47	21.7	1
07914	Boron	7440-42-8	2.12 J	0.968	5.44	1
01650	Calcium	7440-70-2	2,600	6.66	21.7	1
01654	Iron	7439-89-6	20,600	5.12	21.7	1
01656	Lithium	7439-93-2	22.8	0.24	2.2	1
01657	Magnesium	7439-95-4	3,850	2.76	10.9	1
06958	Manganese	7439-96-5	208	0.0848	0.544	1
10145	Phosphorus	7723-14-0	355	0.609	10.9	1
01662	Potassium	7440-09-7	3,480	19.6	54.4	1
01667	Sodium	7440-23-5	90.7 J	40.6	109	1
07968	Strontium	7440-24-6	24.5	0.0674	0.544	1
06969	Tin	7440-31-5	2.76 J	1.09	10.9	1
06970	Titanium	7440-32-6	1,250	0.413	1.09	1
10146	Zirconium	7440-67-7	1.50 J	0.913	5.44	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-165-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199406
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7604 SDG#: DE076-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.114 J	0.0652	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	5.52	0.0870	0.435	2
06126	Barium	7440-39-3	103	0.117	0.435	2
06127	Beryllium	7440-41-7	0.622	0.0174	0.109	2
06128	Cadmium	7440-43-9	0.230	0.0435	0.109	2
06131	Chromium	7440-47-3	20.3	0.130	0.435	2
06132	Cobalt	7440-48-4	6.66	0.0217	0.109	2
06133	Copper	7440-50-8	11.0	0.0718	0.435	2
06135	Lead	7439-92-1	7.29	0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.795	0.0544	0.109	2
06139	Nickel	7440-02-0	13.3	0.109	0.435	2
06141	Selenium	7782-49-2	0.136 J	0.0435	0.435	2
06142	Silver	7440-22-4	0.0937 J	0.0130	0.109	2
06145	Thallium	7440-28-0	0.286	0.0326	0.109	2
06148	Vanadium	7440-62-2	37.0	0.0239	0.109	2
06149	Zinc	7440-66-6	55.1	0.609	3.26	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0071 J	0.0030	0.106	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0	0.90	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36 J	0.22	1.1	1
	ASTM D1498		mV	mV	mV	
01821	32a OR Potential	n.a.	349	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.90	0.0100	0.0100	1
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: SL-165-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199406
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

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Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7604 SDG#: DE076-04

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-165-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 19:26	Chelsea B Eastep	0.79
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 16:26	Jason M Long	20.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103623646	02/05/2011 12:54	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201103623646	02/05/2011 13:03	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201103623646	02/05/2011 13:03	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103623646	02/05/2011 12:54	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 08:23	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11039SLB026	02/11/2011 02:51	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11039SLB026	02/09/2011 02:45	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110390023A	02/09/2011 18:29	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/24/2011 00:44	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110390023A	02/09/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110385708001	02/09/2011 23:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110381026001A	02/22/2011 09:50	David K Beck	2
06125	Arsenic	SW-846 6020	1	110381026001A	02/22/2011 09:50	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-165-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5B-SB-4.0-5.0

LLI Sample # SW 6199406
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 10:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7604 SDG#: DE076-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	110381026001D	02/22/2011 09:50	David K Beck	2
06127	Beryllium	SW-846 6020	1	110381026001A	02/22/2011 09:50	David K Beck	2
06128	Cadmium	SW-846 6020	1	110381026001A	02/22/2011 15:16	Parker D Lindstrom	2
06131	Chromium	SW-846 6020	1	110381026001A	02/22/2011 15:16	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110381026001A	02/22/2011 15:16	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110381026001A	02/22/2011 15:16	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110381026001A	02/22/2011 09:50	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110381026001C	02/22/2011 09:50	David K Beck	2
06139	Nickel	SW-846 6020	1	110381026001A	02/22/2011 15:16	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110381026001B	02/22/2011 09:50	David K Beck	2
06142	Silver	SW-846 6020	1	110381026001A	02/22/2011 09:50	David K Beck	2
06145	Thallium	SW-846 6020	1	110381026001A	02/22/2011 15:16	Parker D Lindstrom	2
06148	Vanadium	SW-846 6020	1	110381026001A	02/22/2011 15:16	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110381026001A	02/22/2011 09:50	David K Beck	2
00159	Mercury	SW-846 7471A	1	110385711001	02/08/2011 08:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110385708001	02/07/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110381026001	02/07/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110385711001	02/07/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203B	02/13/2011 00:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 03:39	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 05:59	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203B	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102B	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402B	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-272-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199407
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7605 SDG#: DE076-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.1 U	6.1	7.3	0.82
06192	Benzene	71-43-2	0.09 U	0.09	3.6	0.82
06192	Bromobenzene	108-86-1	0.12 U	0.12	3.6	0.82
06192	Bromochloromethane	74-97-5	0.30 U	0.30	3.6	0.82
06192	Bromodichloromethane	75-27-4	0.07 U	0.07	3.6	0.82
06192	Bromoform	75-25-2	0.36 U	0.36	3.6	0.82
06192	Bromomethane	74-83-9	0.23 U	0.23	3.6	0.82
06192	2-Butanone	78-93-3	1.1 U	1.1	7.3	0.82
06192	n-Butylbenzene	104-51-8	0.11 U	0.11	3.6	0.82
06192	sec-Butylbenzene	135-98-8	0.05 U	0.05	3.6	0.82
06192	tert-Butylbenzene	98-06-6	0.15 U	0.15	3.6	0.82
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.6	0.82
06192	Chlorobenzene	108-90-7	0.1 U	0.1	3.6	0.82
06192	Chloroethane	75-00-3	0.12 U	0.12	3.6	0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27 U	0.27	3.6	0.82
06192	Chloroform	67-66-3	0.11 U	0.11	3.6	0.82
06192	Chloromethane	74-87-3	0.30 U	0.30	3.6	0.82
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.6	0.82
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.6	0.82
06192	Chlorotrifluoroethene	79-38-9	0.46 U	0.46	4.6	0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64 U	0.64	3.6	0.82
06192	Dibromochloromethane	124-48-1	0.18 U	0.18	3.6	0.82
06192	1,2-Dibromoethane	106-93-4	0.15 U	0.15	3.6	0.82
06192	Dibromomethane	74-95-3	0.22 U	0.22	3.6	0.82
06192	1,2-Dichlorobenzene	95-50-1	0.08 U	0.08	3.6	0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11 U	0.11	3.6	0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	3.6	0.82
06192	Dichlorodifluoromethane	75-71-8	0.11 U	0.11	3.6	0.82
06192	1,1-Dichloroethane	75-34-3	0.09 U	0.09	3.6	0.82
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.6	0.82
06192	1,1-Dichloroethene	75-35-4	0.36 U	0.36	3.6	0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.17 U	0.17	3.6	0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11 U	0.11	3.6	0.82
06192	1,2-Dichloropropane	78-87-5	0.15 U	0.15	3.6	0.82
06192	1,3-Dichloropropane	142-28-9	0.07 U	0.07	3.6	0.82
06192	2,2-Dichloropropane	594-20-7	0.15 U	0.15	3.6	0.82
06192	1,1-Dichloropropene	563-58-6	0.12 U	0.12	3.6	0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15 U	0.15	3.6	0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.15 U	0.15	3.6	0.82
06192	Ethylbenzene	100-41-4	0.05 U	0.05	3.6	0.82
06192	Freon 113	76-13-1	0.1 U	0.1	3.6	0.82
06192	Freon 133a	75-88-7	0.46 U	0.46	4.6	0.82
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.6	0.82
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.3	0.82
06192	Isopropylbenzene	98-82-8	0.05 U	0.05	3.6	0.82
06192	p-Isopropyltoluene	99-87-6	0.1 U	0.1	3.6	0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19 U	0.19	3.6	0.82
06192	4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	7.3	0.82
06192	Methylene Chloride	75-09-2	0.41 J	0.22	3.6	0.82
06192	n-Propylbenzene	103-65-1	0.06 U	0.06	3.6	0.82

*=This limit was used in the evaluation of the final result

Sample Description: SL-272-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199407
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7605 SDG#: DE076-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.09 U	0.09	3.6	0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.1 U	0.1	3.6	0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21 U	0.21	3.6	0.82
06192	Tetrachloroethene	127-18-4	0.18 U	0.18	3.6	0.82
06192	Toluene	108-88-3	0.08 J	0.07	3.6	0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13	3.6	0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.16 U	0.16	3.6	0.82
06192	1,1,1-Trichloroethane	71-55-6	0.18 U	0.18	3.6	0.82
06192	1,1,2-Trichloroethane	79-00-5	0.25 U	0.25	3.6	0.82
06192	Trichloroethene	79-01-6	0.14 U	0.14	3.6	0.82
06192	Trichlorofluoromethane	75-69-4	0.26 U	0.26	3.6	0.82
06192	1,2,3-Trichloropropane	96-18-4	0.30 U	0.30	3.6	0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.36 U	0.36	3.6	0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09 U	0.09	3.6	0.82
06192	Vinyl Chloride	75-01-4	0.18 U	0.18	3.6	0.82
06192	m+p-Xylene	179601-23-1	0.15 U	0.15	3.6	0.82
06192	o-Xylene	95-47-6	0.15 U	0.15	3.6	0.82
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:cis-1,3-Dichloropropene						
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.4 U	4.4	13	19.97
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190 U	190	560	1
04688	Benidine	92-87-5	1,300 U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190 U	190	560	1
04688	Benzyl alcohol	100-51-6	190 U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19 U	19	190	1
04688	Carbazole	86-74-8	19 U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37 U	37	190	1
04688	4-Chloroaniline	106-47-8	74 U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19 U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19 U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19 U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19 U	19	190	1
04688	2-Chlorophenol	95-57-8	19 U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37 U	37	190	1
04688	Dibenzofuran	132-64-9	19 U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19 U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19 U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19 U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19 U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37 U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37 U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190 U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-272-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199407
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7605 SDG#: DE076-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	740	U 740	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U 74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	37	U 37	190	1
04688	4-Methylphenol	106-44-5	37	U 37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	37	U 37	190	1
04688	4-Nitroaniline	100-01-6	74	U 74	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	560	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U 0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U 0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20	1
10138	Chrysene	218-01-9	0.37	U 0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J 6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U 0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U 0.74	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-272-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199407
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7605 SDG#: DE076-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74 U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74 U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74 U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74 U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74 U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74 U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74 U	0.74	1.9	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37 U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37 U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37 U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.43 U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9	1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	19,100	5.43	21.6	1
07914	Boron	7440-42-8	0.960 U	0.960	5.39	1
01650	Calcium	7440-70-2	2,330	6.61	21.6	1
01654	Iron	7439-89-6	22,200	5.08	21.6	1
01656	Lithium	7439-93-2	21.6	0.24	2.2	1
01657	Magnesium	7439-95-4	4,430	2.74	10.8	1
06958	Manganese	7439-96-5	258	0.0841	0.539	1
10145	Phosphorus	7723-14-0	152	0.604	10.8	1
01662	Potassium	7440-09-7	1,860	19.4	53.9	1
01667	Sodium	7440-23-5	94.2 J	40.2	108	1
07968	Strontium	7440-24-6	20.7	0.0669	0.539	1
06969	Tin	7440-31-5	2.94 J	1.08	10.8	1
06970	Titanium	7440-32-6	1,280	0.410	1.08	1
10146	Zirconium	7440-67-7	2.46 J	0.906	5.39	1
SW-846 6020						
06124	Antimony	7440-36-0	0.101 J	0.0660	0.220	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.86	0.0880	0.440	2
06126	Barium	7440-39-3	97.3	0.119	0.440	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-272-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199407
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7605 SDG#: DE076-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06127	Beryllium	7440-41-7	0.728	0.0176	0.110	2
06128	Cadmium	7440-43-9	0.0608 J	0.0440	0.110	2
06131	Chromium	7440-47-3	20.9	0.132	0.440	2
06132	Cobalt	7440-48-4	5.81	0.0220	0.110	2
06133	Copper	7440-50-8	8.54	0.0726	0.440	2
06135	Lead	7439-92-1	6.12	0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.452	0.0550	0.110	2
06139	Nickel	7440-02-0	11.7	0.110	0.440	2
06141	Selenium	7782-49-2	0.0641 J	0.0440	0.440	2
06142	Silver	7440-22-4	0.0290 J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.228	0.0330	0.110	2
06148	Vanadium	7440-62-2	41.4	0.0242	0.110	2
06149	Zinc	7440-66-6	47.0	0.616	3.30	2
SW-846 7471A						
	mg/kg		mg/kg	mg/kg		
00159	Mercury	7439-97-6	0.0036 J	0.0031	0.107	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.89	1.1	1
EPA 314.0						
	ug/kg		ug/kg	ug/kg		
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.3	1
SW-846 7199						
	mg/kg		mg/kg	mg/kg		
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
ASTM D1498						
	mV		mV	mV		
01821	32a OR Potential	n.a.	328	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
SW-846 9045C modified						
	Std. Units		Std. Units	Std. Units		
00394	22a pH by 9045C	n.a.	6.85	0.0100	0.0100	1
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-272-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199407
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7605 SDG#: DE076-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-272-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 19:49	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 16:46	Jason M Long	19.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103623646	02/05/2011 12:57	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201103623646	02/05/2011 13:03	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201103623646	02/05/2011 13:03	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103623646	02/05/2011 12:57	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 08:50	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11039SLB026	02/11/2011 03:24	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11039SLB026	02/09/2011 02:45	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/24/2011 01:03	Andrea J Covey	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110385708001	02/09/2011 23:33	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110381026001A	02/22/2011 09:53	David K Beck	2
06125	Arsenic	SW-846 6020	1	110381026001A	02/22/2011 09:53	David K Beck	2
06126	Barium	SW-846 6020	1	110381026001D	02/22/2011 09:53	David K Beck	2
06127	Beryllium	SW-846 6020	1	110381026001A	02/22/2011 09:53	David K Beck	2
06128	Cadmium	SW-846 6020	1	110381026001A	02/22/2011 15:18	Parker D Lindstrom	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-272-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-272-SA5B-SB-4.0-5.0

LLI Sample # SW 6199407
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 15:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7605 SDG#: DE076-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110381026001A	02/22/2011 15:18	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110381026001A	02/22/2011 15:18	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110381026001A	02/22/2011 15:18	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110381026001A	02/22/2011 09:53	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110381026001C	02/22/2011 09:53	David K Beck	2
06139	Nickel	SW-846 6020	1	110381026001A	02/22/2011 15:18	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110381026001B	02/22/2011 09:53	David K Beck	2
06142	Silver	SW-846 6020	1	110381026001A	02/22/2011 09:53	David K Beck	2
06145	Thallium	SW-846 6020	1	110381026001A	02/22/2011 09:53	David K Beck	2
06148	Vanadium	SW-846 6020	1	110381026001A	02/22/2011 15:18	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110381026001A	02/22/2011 09:53	David K Beck	2
00159	Mercury	SW-846 7471A	1	110385711001	02/08/2011 08:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110385708001	02/07/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110381026001	02/07/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110385711001	02/07/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203B	02/13/2011 00:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 04:03	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 06:12	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203B	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102B	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402B	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

Sample Description: SL-273-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199408
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7606 SDG#: DE076-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5 U	6.5	7.8	0.85
06192	Benzene	71-43-2	0.1 U	0.1	3.9	0.85
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9	0.85
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9	0.85
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9	0.85
06192	Bromoform	75-25-2	0.39 U	0.39	3.9	0.85
06192	Bromomethane	74-83-9	0.24 U	0.24	3.9	0.85
06192	2-Butanone	78-93-3	1.2 U	1.2	7.8	0.85
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9	0.85
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9	0.85
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9	0.85
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	3.9	0.85
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9	0.85
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9	0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.9	0.85
06192	Chloroform	67-66-3	0.12 U	0.12	3.9	0.85
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9	0.85
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	3.9	0.85
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	3.9	0.85
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.8	0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68 U	0.68	3.9	0.85
06192	Dibromochloromethane	124-48-1	0.19 U	0.19	3.9	0.85
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.9	0.85
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.9	0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9	0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9	0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9	0.85
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9	0.85
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9	0.85
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	3.9	0.85
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9	0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18 U	0.18	3.9	0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9	0.85
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.9	0.85
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9	0.85
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.9	0.85
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9	0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9	0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.9	0.85
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9	0.85
06192	Freon 113	76-13-1	0.11 U	0.11	3.9	0.85
06192	Freon 133a	75-88-7	0.49 U	0.49	4.8	0.85
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	3.9	0.85
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.8	0.85
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9	0.85
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9	0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20 U	0.20	3.9	0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.8	0.85
06192	Methylene Chloride	75-09-2	0.41 J	0.23	3.9	0.85
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9	0.85

*=This limit was used in the evaluation of the final result

Sample Description: SL-273-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199408
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7606 SDG#: DE076-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1 U	0.1	3.9	0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	3.9	0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22 U	0.22	3.9	0.85
06192	Tetrachloroethene	127-18-4	0.19 U	0.19	3.9	0.85
06192	Toluene	108-88-3	0.08 U	0.08	3.9	0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	3.9	0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	3.9	0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19 U	0.19	3.9	0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.9	0.85
06192	Trichloroethene	79-01-6	0.15 U	0.15	3.9	0.85
06192	Trichlorofluoromethane	75-69-4	0.28 U	0.28	3.9	0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	3.9	0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39	3.9	0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	3.9	0.85
06192	Vinyl Chloride	75-01-4	0.19 U	0.19	3.9	0.85
06192	m+p-Xylene	179601-23-1	0.16 U	0.16	3.9	0.85
06192	o-Xylene	95-47-6	0.16 U	0.16	3.9	0.85

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: cis-1,3-Dichloropropene

The GC/MS volatile internal standard peak areas were outside the QC limits. A re-analysis was performed, and the matrix effect was confirmed.

GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.1 U	5.1	15	22.28

GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190 U	190	570	1
04688	Benzidine	92-87-5	1,300 U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190 U	190	570	1
04688	Benzyl alcohol	100-51-6	190 U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19 U	19	190	1
04688	Carbazole	86-74-8	19 U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38 U	38	190	1
04688	4-Chloroaniline	106-47-8	76 U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19 U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19 U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19 U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19 U	19	190	1
04688	2-Chlorophenol	95-57-8	19 U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38 U	38	190	1
04688	Dibenzofuran	132-64-9	19 U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19 U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19 U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19 U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110	380	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-273-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199408
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7606 SDG#: DE076-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570	1
04688	2,4-Dinitrophenol	51-28-5	760	U 760	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U 76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	76	U 76	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	570	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U 0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.48	J 0.38	1.9	1
10138	Anthracene	120-12-7	1.3	J 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	2.5	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	3.2	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	8.4	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	6.6	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	3.9	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U 6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U 6.8	20	1
10138	Chrysene	218-01-9	5.2	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U 0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U 6.8	20	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-273-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199408
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7606 SDG#: DE076-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Dimethylphthalate	131-11-3	6.8 U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10 J	6.8	20	1
10138	Fluoranthene	206-44-0	4.3	0.76	1.9	1
10138	Fluorene	86-73-7	0.76 U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.4	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76 U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.83 J	0.76	1.9	1
10138	Naphthalene	91-20-3	0.94 J	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	20	1
10138	Phenanthrene	85-01-8	2.3	0.76	1.9	1
10138	Pyrene	129-00-0	5.7	0.76	1.9	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	5.7 U	5.7	19	5
10225	Aroclor 5442	12642-23-8	5.7 U	5.7	19	5
10225	Aroclor 5460	11126-42-4	39	5.7	19	5
10225	PCB-1016	12674-11-2	1.9 U	1.9	9.7	5
10225	PCB-1221	11104-28-2	1.9 U	1.9	9.7	5
10225	PCB-1232	11141-16-5	1.9 U	1.9	9.7	5
10225	PCB-1242	53469-21-9	1.9 U	1.9	9.7	5
10225	PCB-1248	12672-29-6	1.9 U	1.9	9.7	5
10225	PCB-1254	11097-69-1	1.9 U	1.9	9.7	5
10225	PCB-1260	11096-82-5	58	2.2	9.7	5
10225	PCB-1262	37324-23-5	1.9 U	1.9	9.7	5
10225	PCB-1268	11100-14-4	1.9 U	1.9	9.7	5
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	21,500	5.55	22.1	1
07914	Boron	7440-42-8	0.982 U	0.982	5.52	1
01650	Calcium	7440-70-2	6,770	6.76	22.1	1
01654	Iron	7439-89-6	30,900	26.0	110	5
01656	Lithium	7439-93-2	43.3	0.24	2.2	1
01657	Magnesium	7439-95-4	6,090	2.80	11.0	1
06958	Manganese	7439-96-5	335	0.0861	0.552	1
10145	Phosphorus	7723-14-0	524	0.618	11.0	1
01662	Potassium	7440-09-7	3,010	19.9	55.2	1
01667	Sodium	7440-23-5	99.3 J	41.2	110	1
07968	Strontium	7440-24-6	41.3	0.0684	0.552	1
06969	Tin	7440-31-5	3.62 J	1.10	11.0	1
06970	Titanium	7440-32-6	1,380	0.419	1.10	1
10146	Zirconium	7440-67-7	2.58 J	0.927	5.52	1
SW-846 6020						
06124	Antimony	7440-36-0	0.0668 U	0.0668	0.223	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-273-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199408
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7606 SDG#: DE076-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6020		mg/kg	mg/kg	mg/kg	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.15	0.0891	0.446	2
06126	Barium	7440-39-3	91.5	0.120	0.446	2
06127	Beryllium	7440-41-7	0.683	0.0178	0.111	2
06128	Cadmium	7440-43-9	0.876	0.0446	0.111	2
06131	Chromium	7440-47-3	29.4	0.134	0.446	2
06132	Cobalt	7440-48-4	6.26	0.0223	0.111	2
06133	Copper	7440-50-8	21.2	0.0735	0.446	2
06135	Lead	7439-92-1	16.5	0.0116	0.223	2
06138	Molybdenum	7439-98-7	1.08	0.0557	0.111	2
06139	Nickel	7440-02-0	17.5	0.111	0.446	2
06141	Selenium	7782-49-2	0.216 J	0.0446	0.446	2
06142	Silver	7440-22-4	21.5	0.0134	0.111	2
06145	Thallium	7440-28-0	0.267	0.0334	0.111	2
06148	Vanadium	7440-62-2	37.5	0.0245	0.111	2
06149	Zinc	7440-66-6	95.4	0.624	3.34	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0737 J	0.0031	0.108	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.0	0.91	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.1	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	3.0	0.23	1.1	1
	ASTM D1498		mV	mV	mV	
01821	32a OR Potential	n.a.	359	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.06	0.0100	0.0100	1
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11624	28a Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: SL-273-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199408
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7606 SDG#: DE076-06

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-273-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110381AA	02/07/2011 20:11	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110381AA	02/07/2011 17:05	Jason M Long	22.28
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201103623646	02/05/2011 12:59	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201103623646	02/05/2011 13:03	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201103623646	02/05/2011 13:03	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201103623646	02/05/2011 13:00	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11039SLA026	02/10/2011 09:16	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11039SLB026	02/11/2011 03:56	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11039SLB026	02/09/2011 02:45	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11039SLA026	02/09/2011 02:45	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110480028A	02/24/2011 02:35	Andrea J Covey	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	110480028A	02/17/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	110385708001	02/13/2011 23:01	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	110385708001	02/09/2011 23:37	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	110381026001A	02/22/2011 09:56	David K Beck	2
06125	Arsenic	SW-846 6020	1	110381026001A	02/22/2011 09:56	David K Beck	2
06126	Barium	SW-846 6020	1	110381026001D	02/22/2011 09:56	David K Beck	2
06127	Beryllium	SW-846 6020	1	110381026001A	02/22/2011 09:56	David K Beck	2
06128	Cadmium	SW-846 6020	1	110381026001A	02/22/2011 15:20	Parker D Lindstrom	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-273-SA5B-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-273-SA5B-SB-2.0-3.0

LLI Sample # SW 6199408
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011 13:57

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7606 SDG#: DE076-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	110381026001A	02/22/2011 15:20	Parker D Lindstrom	2
06132	Cobalt	SW-846 6020	1	110381026001A	02/22/2011 15:20	Parker D Lindstrom	2
06133	Copper	SW-846 6020	1	110381026001A	02/22/2011 15:20	Parker D Lindstrom	2
06135	Lead	SW-846 6020	1	110381026001A	02/22/2011 09:56	David K Beck	2
06138	Molybdenum	SW-846 6020	1	110381026001C	02/22/2011 09:56	David K Beck	2
06139	Nickel	SW-846 6020	1	110381026001A	02/22/2011 15:20	Parker D Lindstrom	2
06141	Selenium	SW-846 6020	1	110381026001B	02/22/2011 09:56	David K Beck	2
06142	Silver	SW-846 6020	1	110381026001A	02/22/2011 09:56	David K Beck	2
06145	Thallium	SW-846 6020	1	110381026001A	02/22/2011 09:56	David K Beck	2
06148	Vanadium	SW-846 6020	1	110381026001A	02/22/2011 15:20	Parker D Lindstrom	2
06149	Zinc	SW-846 6020	1	110381026001A	02/22/2011 09:56	David K Beck	2
00159	Mercury	SW-846 7471A	1	110385711001	02/08/2011 08:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110385708001	02/07/2011 20:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110381026001	02/07/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110385711001	02/07/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11040040203B	02/13/2011 00:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11048048202A	02/22/2011 04:27	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11043243201A	02/16/2011 06:24	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11040040203B	02/09/2011 21:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11048048202A	02/17/2011 13:40	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11039182102B	02/08/2011 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11039039402B	02/08/2011 13:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11043243201A	02/12/2011 06:05	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11047162401A	02/16/2011 17:18	Scott W Freisher	1

Sample Description: TB-020411 Water
SSFL Area IV Collocated Soil Sampling
TB-020411

LLI Sample # WW 6199409
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7607 SDG#: DE076-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6 U	6	20	1
10904	Benzene	71-43-2	0.5 U	0.5	5	1
10904	Bromobenzene	108-86-1	1 U	1	5	1
10904	Bromochloromethane	74-97-5	1 U	1	5	1
10904	Bromodichloromethane	75-27-4	1 U	1	5	1
10904	Bromoform	75-25-2	1 U	1	5	1
10904	Bromomethane	74-83-9	1 U	1	5	1
10904	2-Butanone	78-93-3	3 U	3	10	1
10904	n-Butylbenzene	104-51-8	1 U	1	5	1
10904	sec-Butylbenzene	135-98-8	1 U	1	5	1
10904	tert-Butylbenzene	98-06-6	1 U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1 U	1	5	1
10904	Chlorobenzene	108-90-7	0.8 U	0.8	5	1
10904	Chloroethane	75-00-3	1 U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2 U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10904	Chloroform	67-66-3	0.8 U	0.8	5	1
10904	Chloromethane	74-87-3	1 U	1	5	1
10904	2-Chlorotoluene	95-49-8	1 U	1	5	1
10904	4-Chlorotoluene	106-43-4	1 U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2 U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
10904	Dibromochloromethane	124-48-1	1 U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1 U	1	5	1
10904	Dibromomethane	74-95-3	1 U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1 U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1 U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2 U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1 U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1 U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8 U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8 U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8 U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1 U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1 U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1 U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1 U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1 U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1 U	1	5	1
10904	Ethylbenzene	100-41-4	0.8 U	0.8	5	1
10904	Freon 113	76-13-1	2 U	2	10	1
10904	Freon 133a	75-88-7	2 U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2 U	2	5	1
10904	2-Hexanone	591-78-6	3 U	3	10	1
10904	Isopropylbenzene	98-82-8	1 U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1 U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: TB-020411 Water
SSFL Area IV Collocated Soil Sampling
TB-020411

LLI Sample # WW 6199409
LLI Group # 1231921
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 02/04/2011

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 02/05/2011 11:00

Reported: 02/25/2011 14:47

E7607 SDG#: DE076-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2 U	2	5	1
10904	n-Propylbenzene	103-65-1	1 U	1	5	1
10904	Styrene	100-42-5	1 U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1 U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1 U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8 U	0.8	5	1
10904	Toluene	108-88-3	0.7 U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1 U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8 U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8 U	0.8	5	1
10904	Trichloroethene	79-01-6	1 U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2 U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1 U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1 U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1 U	1	5	1
10904	Vinyl Chloride	75-01-4	1 U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8 U	0.8	5	1
10904	o-Xylene	95-47-6	0.8 U	0.8	5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5 U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110382AA	02/07/2011 17:05	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110391AA	02/08/2011 11:03	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y110382AA	02/07/2011 17:05	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E110391AA	02/08/2011 11:03	Jason M Long	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/25/11 at 02:47 PM

Group Number: 1231921

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110381AA Sample number(s): 6199403-6199408									
Acetone	6.7 U	6.7	8.0	ug/kg	92	93	32-209	1	30
Benzene	0.10 U	0.10	4.0	ug/kg	100	100	80-120	0	30
Bromobenzene	0.13 U	0.13	4.0	ug/kg	100	94	79-120	6	30
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	96	98	79-124	1	30
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	92	92	78-120	0	30
Bromoform	0.40 U	0.40	4.0	ug/kg	88	88	70-120	0	30
Bromomethane	0.25 U	0.25	4.0	ug/kg	86	84	32-162	3	30
2-Butanone	1.2 U	1.2	8.0	ug/kg	90	94	46-153	4	30
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	88	103	72-120	16	30
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	100	98	75-120	3	30
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	93	89	75-120	4	30
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	97	94	69-122	3	30
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	97	96	80-120	0	30
Chloroethane	0.13 U	0.13	4.0	ug/kg	84	80	37-154	4	30
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	77	81	43-146	5	30
Chloroform	0.12 U	0.12	4.0	ug/kg	99	97	80-120	2	30
Chloromethane	0.33 U	0.33	4.0	ug/kg	90	90	54-132	0	30
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	107	100	78-120	7	30
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	109	103	79-120	5	30
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	65	60	22-131	8	30
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	93	89	58-120	4	30
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	96	96	77-120	1	30
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	94	96	80-120	2	30
Dibromomethane	0.24 U	0.24	4.0	ug/kg	97	98	80-120	1	30
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	88	102	79-120	15	30
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	92	97	78-120	6	30
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	86	93	79-120	8	30
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	71	70	20-120	2	30
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	100	99	80-120	1	30
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	95	97	71-129	1	30
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	93	92	73-123	0	30
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	96	95	80-120	1	30
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	98	95	79-120	3	30
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	98	99	80-120	1	30
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	95	98	80-120	3	30
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	99	99	72-123	0	30
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	91	92	77-120	1	30
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	79*	82	80-120	4	30
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	84	86	77-120	3	30
Ethylbenzene	0.08 U	0.06	4.0	ug/kg	91	90	80-120	1	30
Freon 113	0.11 U	0.11	4.0	ug/kg	94	91	61-126	3	30
Freon 133a	0.50 U	0.50	5.0	ug/kg	85	80	78-120	6	30
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	95	87	57-120	9	30
2-Hexanone	1.6 U	1.6	8.0	ug/kg	64	66	45-155	4	30
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	85	84	76-120	1	30
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	86	85	75-120	1	30

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/25/11 at 02:47 PM

Group Number: 1231921

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	88	88	74-121	1	30
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	66	67	61-134	2	30
Methylene Chloride	0.40 J	0.24	4.0	ug/kg	88	90	76-124	2	30
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	116	108	77-120	7	30
Styrene	0.10 U	0.10	4.0	ug/kg	93	93	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	98	96	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	113	108	71-123	5	30
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	96	93	77-120	3	30
Toluene	0.31 J	0.08	4.0	ug/kg	98	97	80-120	1	30
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	91	86	64-120	5	30
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	81	75	68-120	7	30
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	95	94	71-125	1	30
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	98	102	80-120	4	30
Trichloroethene	0.15 U	0.15	4.0	ug/kg	92	93	80-120	1	30
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	86	84	58-133	3	30
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	108	106	71-123	2	30
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	103	101	79-120	1	30
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	107	101	78-120	6	30
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	87	87	53-120	0	30
m+p-Xylene	0.20 J	0.17	4.0	ug/kg	97	96	80-120	1	30
o-Xylene	0.17 U	0.17	4.0	ug/kg	84	84	80-120	0	30
Batch number: E110381AA Sample number(s): 6199403-6199408									
1,4-Dioxane	5.0 U	5.0	15	ug/kg	107	103	70-130	4	30
Batch number: E110391AA Sample number(s): 6199409									
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	107	102	60-132	5	30
Batch number: Y110382AA Sample number(s): 6199409									
Acetone	6 U	6.	20	ug/l	87	83	49-234	4	30
Benzene	0.5 U	0.5	5	ug/l	105	103	79-120	2	30
Bromobenzene	1 U	1.	5	ug/l	104	103	80-120	1	30
Bromochloromethane	1 U	1.	5	ug/l	105	104	80-120	1	30
Bromodichloromethane	1 U	1.	5	ug/l	103	103	80-120	0	30
Bromoform	1 U	1.	5	ug/l	98	94	61-120	4	30
Bromomethane	1 U	1.	5	ug/l	88	87	44-120	1	30
2-Butanone	3 U	3.	10	ug/l	100	98	66-151	2	30
n-Butylbenzene	1 U	1.	5	ug/l	104	103	74-120	0	30
sec-Butylbenzene	1 U	1.	5	ug/l	109	106	78-120	2	30
tert-Butylbenzene	1 U	1.	5	ug/l	102	101	80-120	1	30
Carbon Tetrachloride	1 U	1.	5	ug/l	99	98	75-123	2	30
Chlorobenzene	0.8 U	0.8	5	ug/l	102	101	80-120	1	30
Chloroethane	1 U	1.	5	ug/l	90	88	49-129	2	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	111	108	56-129	2	30
Chloroform	0.8 U	0.8	5	ug/l	106	104	77-122	1	30
Chloromethane	1 U	1.	5	ug/l	99	97	60-129	2	30
2-Chlorotoluene	1 U	1.	5	ug/l	107	106	80-120	1	30
4-Chlorotoluene	1 U	1.	5	ug/l	104	104	80-120	1	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	68	70	38-136	3	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	107	108	66-120	1	30
Dibromochloromethane	1 U	1.	5	ug/l	99	97	80-120	2	30
1,2-Dibromoethane	1 U	1.	5	ug/l	104	102	80-120	3	30
Dibromomethane	1 U	1.	5	ug/l	102	100	80-120	2	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	97	97	80-120	0	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	101	100	80-120	1	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	100	99	80-120	1	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	83	82	47-120	0	30
1,1-Dichloroethane	1 U	1.	5	ug/l	105	104	79-120	1	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/25/11 at 02:47 PM

Group Number: 1231921

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1 U	1.	5	ug/l	107	107	70-130	0	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	92	93	74-123	1	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	104	102	80-120	2	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	104	101	80-120	3	30
1,2-Dichloropropane	1 U	1.	5	ug/l	103	104	78-120	1	30
1,3-Dichloropropane	1 U	1.	5	ug/l	107	105	80-120	2	30
2,2-Dichloropropane	1 U	1.	5	ug/l	95	99	77-124	4	30
1,1-Dichloropropene	1 U	1.	5	ug/l	103	104	80-120	2	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	99	98	80-120	2	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	103	101	79-120	2	30
Ethylbenzene	0.8 U	0.8	5	ug/l	105	103	79-120	1	30
Freon 113	2 U	2.	10	ug/l	90	89	69-128	1	30
Freon 133a	2 U	2.	5	ug/l	80	80	77-120	1	30
Hexachlorobutadiene	2 U	2.	5	ug/l	90	90	58-120	0	30
2-Hexanone	3 U	3.	10	ug/l	105	103	65-136	2	30
Isopropylbenzene	1 U	1.	5	ug/l	102	101	77-120	1	30
p-Isopropyltoluene	1 U	1.	5	ug/l	107	105	80-120	2	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	106	104	76-120	2	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	103	102	70-121	2	30
Methylene Chloride	2 U	2.	5	ug/l	99	96	80-120	3	30
n-Propylbenzene	1 U	1.	5	ug/l	111	110	80-120	1	30
Styrene	1 U	1.	5	ug/l	103	101	80-120	2	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	99	98	80-120	1	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	110	108	71-120	2	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	97	94	80-121	3	30
Toluene	0.7 U	0.7	5	ug/l	105	104	79-120	2	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	103	101	65-120	1	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	100	100	67-120	0	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	89	89	75-127	0	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	105	102	80-120	3	30
Trichloroethene	1 U	1.	5	ug/l	102	100	80-120	2	30
Trichlorofluoromethane	2 U	2.	5	ug/l	86	85	64-129	2	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	111	106	80-120	5	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	108	108	74-120	0	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	108	107	75-120	1	30
Vinyl Chloride	1 U	1.	5	ug/l	86	85	65-125	1	30
m+p-Xylene	0.8 U	0.8	5	ug/l	102	100	80-120	2	30
o-Xylene	0.8 U	0.8	5	ug/l	101	100	80-120	1	30

Batch number: 11039SLA026

Sample number(s): 6199403-6199408

Aniline	170 U	170.	500	ug/kg	62	34-94
Benzidine	1,200 U	1,200.	3,300	ug/kg	33	15-121
Benzoic acid	170 U	170.	500	ug/kg	105	62-113
Benzyl alcohol	170 U	170.	500	ug/kg	103	68-111
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	87	79-117
Carbazole	17 U	17.	170	ug/kg	100	77-113
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	102	74-119
4-Chloroaniline	67 U	67.	170	ug/kg	31	10-110
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	96	70-118
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	95	70-104
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	101	68-131
2-Chloronaphthalene	17 U	17.	170	ug/kg	88	49-128
2-Chlorophenol	17 U	17.	170	ug/kg	101	72-112
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	90	79-110

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/25/11 at 02:47 PM

Group Number: 1231921

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	100		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100		100.	330	ug/kg	61		24-101		
	U									
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	101		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	108		70-130		
4,6-Dinitro-2-methylphenol	170		170.	500	ug/kg	79		53-110		
	U									
2,4-Dinitrophenol	670		670.	1,000	ug/kg	75		37-120		
	U									
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	106		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	89		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	85		70-112		
Hexachlorocyclopentadiene	170		170.	500	ug/kg	76		46-115		
	U									
Hexachloroethane	17	U	17.	170	ug/kg	89		68-105		
Isophorone	17	U	17.	170	ug/kg	98		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	108		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	100		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	84		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	77		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	104		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	97		81-114		
4-Nitrophenol	170		170.	500	ug/kg	98		56-118		
	U									
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	98		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Pentachlorophenol	170		170.	500	ug/kg	86		51-117		
	U									
Phenol	17	U	17.	170	ug/kg	113*		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	96		78-111		
Batch number: 11039SLB026 Sample number(s): 6199403-6199408										
Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	109		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	96		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	109		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	111		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	105		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	107		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	106		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	96		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	123		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	101		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	102		71-120		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/25/11 at 02:47 PM

Group Number: 1231921

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	105		56-134		
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	90		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	85		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	80		55-118		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	104		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	103		56-121		
Batch number: 110390023A	Sample number(s): 6199406								
6a Perchlorate EPA 6850	2.1 U	2.1	5.0	ug/kg	101		85-115		
Batch number: 110480028A	Sample number(s): 6199403-6199408								
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	82	75	36-106	8	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	73		72-120		
PCB-1221	0.33 U	0.33	1.7	ug/kg					
PCB-1232	0.33 U	0.33	1.7	ug/kg					
PCB-1242	0.33 U	0.33	1.7	ug/kg					
PCB-1248	0.33 U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	0.33	1.7	ug/kg					
PCB-1260	0.39 U	0.39	1.7	ug/kg	90		65-137		
PCB-1262	0.33 U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	0.33	1.7	ug/kg					
Batch number: 110381026001A	Sample number(s): 6199403-6199408								
Antimony	0.0600 U	0.0600	0.200	mg/kg	102		11-208		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	102		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	109		82-118		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	107		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	102		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	99		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	97		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	103		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	100		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	108		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	111		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	97		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	109		78-122		
Batch number: 110381026001B	Sample number(s): 6199403-6199408								
Selenium	0.0400 U	0.0400	0.400	mg/kg	109		79-122		
Batch number: 110381026001C	Sample number(s): 6199403-6199408								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	109		78-122		
Batch number: 110381026001D	Sample number(s): 6199403-6199408								
Barium	0.108 U	0.108	0.400	mg/kg	108		79-121		
Batch number: 110385708001	Sample number(s): 6199403-6199408								
Aluminum	5.03 U	5.03	20.0	mg/kg	103		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	99		78-110		
Calcium	7.54 J	6.13	20.0	mg/kg	96		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	109		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	100		81-119		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/25/11 at 02:47 PM

Group Number: 1231921

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Phosphorus	0.685 J	0.560	10.0	mg/kg	103		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	96		78-110		
Sodium	37.3 U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	109		79-121		
Tin	1.32 J	1.00	10.0	mg/kg	99		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	104		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	98		80-120		
Batch number: 110385711001	Sample number(s): 6199403-6199408								
Mercury	0.0028 U	0.0028	0.0984	mg/kg	89		88-123		
Batch number: 11040040203B	Sample number(s): 6199403-6199408								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	105		90-110		
Batch number: 11043243201A	Sample number(s): 6199403-6199408								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	88		80-120		
Batch number: 11048048202A	Sample number(s): 6199403-6199408								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11039039402A	Sample number(s): 6199403-6199404								
22a pH by 9045C					100		95-105		
Batch number: 11039039402B	Sample number(s): 6199405-6199408								
22a pH by 9045C					100		95-105		
Batch number: 11039182102A	Sample number(s): 6199403-6199404								
32a OR Potential					99		98-102		
Batch number: 11039182102B	Sample number(s): 6199405-6199408								
32a OR Potential					99		98-102		
Batch number: 11047162401A	Sample number(s): 6199403-6199408								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 11039SLA026	Sample number(s): 6199403-6199408 UNSPK: 6199403								
Aniline	77	79	35-95	2	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	72	67	10-173	6	30				
Benzyl alcohol	133*	119*	67-115	11	30				
4-Bromophenyl-phenylether	95	82	67-129	15	30				
Carbazole	108	98	64-120	10	30				
4-Chloro-3-methylphenol	124*	113*	76-110	9	30				
4-Chloroaniline	63	72	23-95	13	30				
bis(2-Chloroethoxy)methane	98	95	75-104	3	30				
bis(2-Chloroethyl)ether	106	98	60-116	8	30				
bis(2-Chloroisopropyl)ether	111	101	55-142	10	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/25/11 at 02:47 PM

Group Number: 1231921

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Chloronaphthalene	89	71	50-141	22	30				
2-Chlorophenol	121	114	73-121	6	30				
4-Chlorophenyl-phenylether	98	88	80-109	11	30				
Dibenzofuran	104	95	71-112	8	30				
1,2-Dichlorobenzene	94	90	66-108	4	30				
1,3-Dichlorobenzene	88	83	63-109	6	30				
1,4-Dichlorobenzene	89	84	70-100	5	30				
3,3'-Dichlorobenzidine	64	65	16-119	2	30				
2,4-Dichlorophenol	110	105	78-117	5	30				
2,4-Dimethylphenol	109	101	78-110	7	30				
3,5-Dimethylphenol	126	116	70-130	8	30				
4,6-Dinitro-2-methylphenol	53	52	24-116	3	30				
2,4-Dinitrophenol	34	34	20-143	1	30				
2,4-Dinitrotoluene	113	104	73-113	8	30				
2,6-Dinitrotoluene	110	101	69-123	8	30				
1,2-Diphenylhydrazine	113	98	71-129	14	30				
Hexachlorobenzene	95	82	77-114	15	30				
Hexachlorobutadiene	80	75	62-120	7	30				
Hexachlorocyclopentadiene	56	50	10-153	12	30				
Hexachloroethane	90	78	57-109	14	30				
Isophorone	106*	98	73-102	8	30				
2-Methylphenol	136*	121*	75-111	12	30				
4-Methylphenol	137*	117*	71-111	16	30				
2-Nitroaniline	115	105	67-125	9	30				
3-Nitroaniline	107	101	59-122	6	30				
4-Nitroaniline	91	90	52-112	2	30				
Nitrobenzene	103	99	72-106	3	30				
2-Nitrophenol	102	96	74-115	6	30				
4-Nitrophenol	103	99	54-113	5	30				
N-Nitroso-di-n-propylamine	126*	113	60-116	11	30				
N-Nitrosodiphenylamine	102	88	86-145	14	30				
Pentachlorophenol	69	67	28-127	3	30				
Phenol	135*	129*	58-126	4	30				
1,2,4-Trichlorobenzene	88	81	72-115	9	30				
2,4,5-Trichlorophenol	106	98	78-109	8	30				
2,4,6-Trichlorophenol	97	91	77-115	6	30				

Batch number: 11039SLB026

Sample number(s): 6199403-6199408 UNSPK: 6199403

Acenaphthene	89	90	63-105	1	30
Acenaphthylene	90	90	67-114	1	30
Anthracene	92	90	60-122	1	30
Benzo(a)anthracene	106	105	59-128	1	30
Benzo(a)pyrene	94	92	45-138	2	30
Benzo(b)fluoranthene	101	98	43-155	3	30
Benzo(g,h,i)perylene	101	98	33-141	3	30
Benzo(k)fluoranthene	100	95	42-144	5	30
Butylbenzylphthalate	116	113	57-173	2	30
Di-n-butylphthalate	103	103	65-148	1	30
Chrysene	104	101	48-134	3	30
Dibenz(a,h)anthracene	96	93	22-133	3	30
Diethylphthalate	98	99	70-136	1	30
Dimethylphthalate	105	104	74-118	1	30
Bis(2-Ethylhexyl)phthalate	128	130	39-167	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/25/11 at 02:47 PM

Group Number: 1231921

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluoranthene	98	96	26-166	2	30				
Fluorene	97	96	66-122	1	30				
Indeno(1,2,3-cd)pyrene	96	93	21-143	3	30				
1-Methylnaphthalene	88	91	72-123	4	30				
2-Methylnaphthalene	88	90	64-103	3	30				
Naphthalene	86	87	61-102	1	30				
N-Nitrosodimethylamine	89	89	48-113	1	30				
Di-n-octylphthalate	107	103	40-192	4	30				
Phenanthrene	92	90	12-165	2	30				
Pyrene	101	99	15-153	2	30				
Batch number: 110390023A Sample number(s): 6199406 UNSPK: P196805									
6a Perchlorate EPA 6850	104	103	80-120	1	20				
Batch number: 110480028A Sample number(s): 6199403-6199408 UNSPK: P198513									
PCB-1016	70	82	29-146	16	50				
PCB-1260	83	103	39-149	22	50				
Batch number: 110381026001A Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403									
Antimony	51*	35*	75-125	28*	20	0.152 J	0.0910 J	50* (1)	20
Arsenic	13 (2)	115 (2)	75-125	22*	20	8.14	7.54	8	20
Beryllium	73*	96	75-125	12	20	0.873	0.841	4	20
Cadmium	98	96	75-125	3	20	0.0760 J	0.0632 J	18 (1)	20
Chromium	73*	124	75-125	14	20	26.7	24.2	10	20
Cobalt	93	97	75-125	3	20	8.03	10.5	27*	20
Copper	72*	106	75-125	17	20	11.2	9.42	17	20
Lead	6*	121	75-125	32*	20	8.88	10.0	12	20
Nickel	75	106	75-125	13	20	14.3	12.6	13	20
Silver	106	101	75-125	5	20	0.0406 J	0.0377 J	7 (1)	20
Thallium	73*	93	75-125	12	20	0.322	0.290	10 (1)	20
Vanadium	29 (2)	155 (2)	75-125	21*	20	49.6	44.6	11	20
Zinc	-7 (2)	75 (2)	75-125	13	20	57.9	50.3	14	20
Batch number: 110381026001B Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403									
Selenium	85	88	75-125	4	20	0.0884 J	0.0932 J	5 (1)	20
Batch number: 110381026001C Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403									
Molybdenum	97	91	75-125	6	20	0.394	0.400	2 (1)	20
Batch number: 110381026001D Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403									
Barium	-1 (2)	193 (2)	75-125	16	20	109	102	6	20
Batch number: 110385708001 Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403									
Aluminum	-1059 (2)	-271 (2)	75-125	6	20	27,300	22,200	21*	20
Boron	101	102	84-115	2	20	0.881 U	0.881 U	0 (1)	20
Calcium	-29 (2)	-8 (2)	75-125	3	20	3,290	2,780	17	20
Iron	-6092 (2)	-6324 (2)	75-125	1	20	30,700	26,100	16	20
Lithium	94	95	82-114	2	20	31.0	24.9	22*	20
Magnesium	-482 (2)	-500 (2)	75-125	1	20	6,260	4,950	23*	20
Manganese	-110	-19 (2)	75-125	12	20	386	327	17	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/25/11 at 02:47 PM

Group Number: 1231921

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC (2)	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phosphorus	87	59*	75-125	10	20	200	170	16	20
Potassium	119	111	75-125	2	20	2,100	1,790	16	20
Sodium	96	97	75-125	2	20	123	105	16 (1)	20
Strontium	96	98	75-115	2	20	26.9	22.5	18	20
Tin	87	86	80-110	0	20	2.95 J	2.74 J	7 (1)	20
Titanium	131 (2)	125 (2)	75-125	0	20	1,390	1,300	7	20
Zirconium	93	93	75-125	1	20	2.05 J	2.53 J	21* (1)	20
Batch number: 110385711001 Mercury	Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403 102 100 65-135 0 20 0.0027 U 0.0086 J 200* (1) 20								
Batch number: 11040040203B 11a Anions by 300.0 - Fluoride	Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403 54* 80-120 1.4 1.1 22* (1) 20								
Batch number: 11043243201A 3a Cr VI by EPA 7199	Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403 92 75-125 0.20 U 0.20 U 0 (1) 20								
Batch number: 11048048202A 7a Perchlorate EPA 314.0	Sample number(s): 6199403-6199408 UNSPK: 6199403 BKG: 6199403 113 80-120 9.0 U 9.0 U 0 (1) 15								
Batch number: 11039039402A 22a pH by 9045C	Sample number(s): 6199403-6199404 BKG: P198512 6.84 6.85 0 1								
Batch number: 11039039402B 22a pH by 9045C	Sample number(s): 6199405-6199408 BKG: 6199405 7.74 7.73 0 1								
Batch number: 11039182102A 32a OR Potential	Sample number(s): 6199403-6199404 BKG: P198512 445 444 0 6								
Batch number: 11039182102B 32a OR Potential	Sample number(s): 6199405-6199408 BKG: 6199405 313 314 0 6								
Batch number: 11047162401A 28a Moisture Content by 160.3	Sample number(s): 6199403-6199408 BKG: 6199404 11.8 11.8 0 20								

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B

Batch number: B110381AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6199403	115	111	98	86
6199404	117	115	98	85
6199405	115	108	101	77
6199406	116	112	98	66*
6199407	116	113	99	84

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/25/11 at 02:47 PM

Group Number: 1231921

Surrogate Quality Control

6199408	115	110	101	77
Blank	110	106	99	86
LCS	99	102	107	107
LCSD	99	102	106	106

Limits: 80-120 80-120 81-117 74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E110381AA
Toluene-d8

6199403	94
6199404	95
6199405	95
6199406	95
6199407	95
6199408	95
Blank	95
LCS	96
LCSD	95

Limits: 70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E110391AA
Toluene-d8

6199409	96
Blank	96
LCS	96
LCSD	96

Limits: 80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y110382AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6199409	100	101	102	99
Blank	99	100	103	100
LCS	100	102	103	101
LCSD	99	101	102	100

Limits: 86-118 80-120 88-110 86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11039SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6199403	115	111	94	95	90	110
6199404	115	109	115	96	90	108
6199405	106	101	107	89	83	106
6199406	119	113	111	94	86	107
6199407	111	108	104	92	85	105
6199408	108	102	101	88	85	113
Blank	93	96	98	89	89	98
LCS	105	105	103	97	95	99

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/25/11 at 02:47 PM

Group Number: 1231921

Surrogate Quality Control

MS	125*	115	113	98	89	102
MSD	119	110	109	94	84	94
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11039SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6199403	109	113	126
6199404	107	111	143*
6199405	92	86	115
6199406	100	91	112
6199407	91	86	109
6199408	100	89	106
Blank	96	92	107
LCS	94	91	101
MS	99	91	101
MSD	100	92	102
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 110480028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6199403	82	98
6199404	88	94
6199405	78	97
6199406	80	92
6199407	86	82
6199408	67	94
Blank	87	110
LCS	92	121*
LCSD	81	106
MS	73	89
MSD	88	123*
Limits:	53-139	45-120

*- Outside of specification

**This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

CHAIN OF CUSTODY RECORD

CDM		SSFL AREA IV COLLOCATED SOIL SAMPLING				PRIMARY FOR ALL LOCATIONS										VOCs		SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP \$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 8010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8052	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	Presorbate Confirmation by EPA 8850 (10%)	VOCs EPA 8260B \$	1,4-Dioxane EPA 8260SIM \$	TPH-GRO EPA 8015B \$	**pH EPA 9045C	**TPH-EFH EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**p-NDMA EPA 1625C	**Emeralds EPA 8300A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Acetone EPA 8015B		
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																							
SL-041-SA5C-SB-4.0-5.0	2.04.2011	0923	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X																
SL-041-SA5C-SB-4.5	2.04.2011	0918	SOIL	NONE	4-Encores									X	X													
SL-159-SA5B-SB-4.0-5.0	2.04.2011	1135	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X																
SL-159-SA5B-SB-4.5	2.04.2011	1133	SOIL	NONE	4-Encores									X	X													
SL-159-SA5B-SB-6.0-9.0	2.04.2011	1150	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X																
SL-159-SA5B-SB-8.5	2.04.2011	1146	SOIL	NONE	4-Encores									X	X													
SL-165-SA5B-SB-4.0-5.0	2.04.2011	1004	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X																
SL-165-SA5B-SB-4.5	2.04.2011	1002	SOIL	NONE	4-Encores									X	X													
SL-272-SA5B-SB-4.0-5.0	2.04.2011	1510	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X																
SL-272-SA5B-SB-4.5	2.04.2011	1500	SOIL	NONE	4-Encores									X	X													
SL-273-SA5B-SB-2.0-3.0	2.04.2011	1357	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X																
SL-273-SA5B-SB-2.5	2.04.2011	1355	SOIL	NONE	4-Encores									X	X													
TB-020411	2.04.2011		WATER	HCl	3-40 mL VOA VIALS									X	X													
Relinquished by: (Signature)		Date/Time 02/04/2011 / 17:00		Received for Laboratory by: (Signature)																					TRIP BLANK			
Received by: (Signature)		Date/Time		Airbill No.(s) 8695 1432 1229																					Laboratory: Lancaster Laboratories, Inc.			
																									No. of coolers = 1			

Amended
COC
NM 2/7/11

Nicole Maljovec

From: Crites, Ann Marie [CritesAM@cdm.com]
Sent: Monday, February 07, 2011 3:30 PM
To: Bloisa, Peggy; Burgess, Todd; Laura Rainey; Nicole Maljovec; SA Env Entry; Samaritoni, Shelley; Zakowski, Cherie
Subject: Revised COC for 2/4/11
Attachments: COC_subsurface_samples_02_04_11REVISED.xls

The sample location issue has been resolved. My apologies for any inconvenience.

Ann Marie Crites | Environmental Scientist

CDM | 60 Port Blvd, Ste 201

Libby, Montana 59923

critesam@cdm.com | Cell: 406-422-8139

Please consider the environment before printing this e-mail.

2/7/2011

acct#13013 Cp#1231921

Sample# 6199403 09

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								VOCs		SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 8010/8208/8471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCs EPA 8062	*Dioxin/Furan EPA 1613B	*Pesticides EPA 314.0	*Hex Chrome EPA 7189*	*Perchlorate Confirmation by EPA 8850 (1.0%)	VOCs EPA 8260B \$	1,4-Dioxane EPA 8260SIM \$	TPH/RO EPA 8015B \$	*pH EPA 9045C	*TPH/EFH EPA 8015B Mod	*Nitrates EPA 300.0	*Formaldehyde EPA 8315A	*Tri-NDMA EPA 1625C	*Enthalpies EPA 8330A	*Cyanide EPA 9042B	*Triphenyl EPA 8015B	*Glycols EPA 8015B		*Alcohols EPA 8015B
SL-041-SA5B-SB-4.0-5.0	2.04.2011	0923	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-041-SA5B-SB-4.5	2.04.2011	0918	SOIL	NONE	4-Encores									X	X												
SL-159-SA5B-SB-4.0-5.0	2.04.2011	1135	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X		X	X												
SL-159-SA5B-SB-4.5	2.04.2011	1133	SOIL	NONE	4-Encores																						
SL-159-SA5B-SB-8.0-9.0	2.04.2011	1150	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-159-SA5B-SB-8.5	2.04.2011	1146	SOIL	NONE	4-Encores									X	X												
SL-165-SA5B-SB-4.0-5.0	2.04.2011	1004	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-165-SA5B-SB-4.5	2.04.2011	1002	SOIL	NONE	4-Encores									X	X												
SL-272-SA5B-SB-4.0-5.0	2.04.2011	1510	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-272-SA5B-SB-4.5	2.04.2011	1500	SOIL	NONE	4-Encores									X	X												
SL-273-SA5B-SB-2.0-3.0	2.04.2011	1357	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X															
SL-273-SA5B-SB-2.5	2.04.2011	1355	SOIL	NONE	4-Encores									X	X												
IB-020411	2.04.2011		WATER	HCl	3-40 mL VOA VIALS									X	X												
Requested by: (Signature)						Received for Laboratory by: (Signature)						TRIP BLANK															
Date/Time 02/04/2011 / 17:00												Laboratory: Lancaster Laboratories, Inc.															
Received by: (Signature)						Airbill No.(s) 8895 1432 1229						No. of coolers = 1															
Date/Time 2/6/11 / 4:00																											

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 13, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/22/2010

Group Number: 1218532

SDG: DX002

PO Number: 1203-004-007-AL

Release Number: TRACKING #11667

State of Sample Origin: CA

Client Sample DescriptionSL-108-SA5C-SS-0.0-0.5 Grab Soil
SL-067-SA5C-SS-0.0-0.5 Grab Soil
SL-068-SA5C-SS-0.0-0.5 Grab Soil
SL-072-SA5C-SS-0.0-0.5 Grab Soil
SL-079-SA5C-SS-0.0-0.5 Grab Soil
SL-080-SA5C-SS-0.0-0.5 Grab Soil
SL-054-SA5C-SS-0.0-0.5 Grab Soil
SL-051-SA5C-SS-0.0-0.5 Grab Soil
SL-051-SA5C-SS-0.0-0.5 MS Grab Soil
SL-051-SA5C-SS-0.0-0.5 MSD Grab Soil
SL-052-SA5C-SS-0.0-0.5 Grab Soil
DUP02-SA5C-QC-102110 Grab SoilLancaster Labs (LLI) #6125329
6125330
6125331
6125332
6125333
6125334
6125335
6125336
6125337
6125338
6125339
6125340

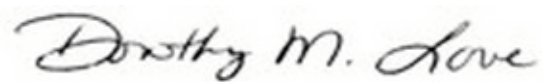
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program
COPY TO
1 COPY TO Data Package Group

Attn: Todd Burgess

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Dorothy M. Love
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 4

Sample Description: SL-108-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125329
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL108 SDG#: DX002-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 6.9	% 0.50	% 0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-108-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125329
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL108 SDG#: DX002-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0472 JQ	0.0125	1.07	1
11031	12378-PeCDD	40321-76-4	0.175 JQ	0.0256	5.37	1
11031	123478-HxCDD	39227-28-6	0.117 JB	0.0327	5.37	1
11031	123678-HxCDD	57653-85-7	0.880 JB	0.0340	5.37	1
11031	123789-HxCDD	19408-74-3	0.644 JB	0.0334	5.37	1
11031	1234678-HpCDD	35822-46-9	27.7 B	0.0449	5.37	1
11031	OCDD	3268-87-9	385 B	0.0702	10.7	1
11031	2378-TCDF	51207-31-9	0.107 JB	0.0287	1.07	1
11031	12378-PeCDF	57117-41-6	0.337 JB	0.0203	5.37	1
11031	23478-PeCDF	57117-31-4	0.317 JBQ	0.0176	5.37	1
11031	123478-HxCDF	70648-26-9	0.326 JB	0.0256	5.37	1
11031	123678-HxCDF	57117-44-9	0.224 JB	0.0234	5.37	1
11031	123789-HxCDF	72918-21-9	0.366 JBQ	0.0267	5.37	1
11031	234678-HxCDF	60851-34-5	0.277 JB	0.0241	5.37	1
11031	1234678-HpCDF	67562-39-4	4.54 JB	0.0223	5.37	1
11031	1234789-HpCDF	55673-89-7	0.328 JB	0.0264	5.37	1
11031	OCDF	39001-02-0	12.8 B	0.0336	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 3 of 4

Sample Description: SL-108-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125329
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL108 SDG#: DX002-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 4 of 4

Sample Description: SL-108-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125329
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL108 SDG#: DX002-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10302002	11/01/2010 17:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10302002	10/29/2010 16:30	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403A	11/04/2010 11:16	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-067-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125330
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL067 SDG#: DX002-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 9.4	% 0.50	% 0.50	1

Sample Description: SL-067-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125330
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL067 SDG#: DX002-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0441 JQ	0.0291	1.10	1
11031	12378-PeCDD	40321-76-4	0.383 JQ	0.0557	5.52	1
11031	123478-HxCDD	39227-28-6	0.372 JB	0.0543	5.52	1
11031	123678-HxCDD	57653-85-7	1.14 JB	0.0540	5.52	1
11031	123789-HxCDD	19408-74-3	0.963 JB	0.0570	5.52	1
11031	1234678-HpCDD	35822-46-9	22.7 B	0.0564	5.52	1
11031	OCDD	3268-87-9	203 B	0.0711	11.0	1
11031	2378-TCDF	51207-31-9	0.530 JB	0.0699	1.10	1
11031	12378-PeCDF	57117-41-6	0.969 JB	0.0385	5.52	1
11031	23478-PeCDF	57117-31-4	0.824 JB	0.0348	5.52	1
11031	123478-HxCDF	70648-26-9	0.788 JB	0.0397	5.52	1
11031	123678-HxCDF	57117-44-9	0.730 JB	0.0385	5.52	1
11031	123789-HxCDF	72918-21-9	0.450 JB	0.0444	5.52	1
11031	234678-HxCDF	60851-34-5	0.779 JB	0.0382	5.52	1
11031	1234678-HpCDF	67562-39-4	4.10 JB	0.0371	5.52	1
11031	1234789-HpCDF	55673-89-7	0.375 JBQ	0.0464	5.52	1
11031	OCDF	39001-02-0	5.68 JB	0.0489	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	94	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-067-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125330
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL067 SDG#: DX002-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 4 of 4

Sample Description: SL-067-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125330
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL067 SDG#: DX002-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10302002	11/01/2010 18:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10302002	10/29/2010 16:30	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403A	11/04/2010 11:16	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 4

Sample Description: SL-068-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125331
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL068 SDG#: DX002-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 6.4	% 0.50	% 0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125331
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL068 SDG#: DX002-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0478 JQ	0.0184	1.07	1
11031	12378-PeCDD	40321-76-4	0.204 J	0.0399	5.34	1
11031	123478-HxCDD	39227-28-6	0.176 JB	0.0361	5.34	1
11031	123678-HxCDD	57653-85-7	0.710 JB	0.0357	5.34	1
11031	123789-HxCDD	19408-74-3	0.507 JB	0.0353	5.34	1
11031	1234678-HpCDD	35822-46-9	16.0 B	0.0379	5.34	1
11031	OCDD	3268-87-9	166 B	0.0625	10.7	1
11031	2378-TCDF	51207-31-9	0.219 JB	0.0509	1.07	1
11031	12378-PeCDF	57117-41-6	0.500 JB	0.0261	5.34	1
11031	23478-PeCDF	57117-31-4	0.497 JB	0.0262	5.34	1
11031	123478-HxCDF	70648-26-9	0.241 JB	0.0344	5.34	1
11031	123678-HxCDF	57117-44-9	0.248 JB	0.0315	5.34	1
11031	123789-HxCDF	72918-21-9	0.360 JB	0.0328	5.34	1
11031	234678-HxCDF	60851-34-5	0.371 JB	0.0314	5.34	1
11031	1234678-HpCDF	67562-39-4	2.58 JB	0.0213	5.34	1
11031	1234789-HpCDF	55673-89-7	0.316 JB	0.0252	5.34	1
11031	OCDF	39001-02-0	4.86 JB	0.0290	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	55	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 3 of 4

Sample Description: SL-068-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125331
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL068 SDG#: DX002-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 4 of 4

Sample Description: SL-068-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125331
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL068 SDG#: DX002-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10302002	11/01/2010 19:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10302002	10/29/2010 16:30	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403A	11/04/2010 11:16	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 4

Sample Description: SL-072-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125332
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL072 SDG#: DX002-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 7.2	% 0.50	% 0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125332
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL072 SDG#: DX002-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0173 U	0.0173	1.08	1
11031	12378-PeCDD	40321-76-4	0.131 JQ	0.0327	5.39	1
11031	123478-HxCDD	39227-28-6	0.156 JBQ	0.0399	5.39	1
11031	123678-HxCDD	57653-85-7	0.519 JB	0.0415	5.39	1
11031	123789-HxCDD	19408-74-3	0.433 JB	0.0415	5.39	1
11031	1234678-HpCDD	35822-46-9	13.7 B	0.0401	5.39	1
11031	OCDD	3268-87-9	220 B	0.0626	10.8	1
11031	2378-TCDF	51207-31-9	0.104 JBQ	0.0358	1.08	1
11031	12378-PeCDF	57117-41-6	0.242 JBQ	0.0238	5.39	1
11031	23478-PeCDF	57117-31-4	0.276 JB	0.0216	5.39	1
11031	123478-HxCDF	70648-26-9	0.249 JBQ	0.0269	5.39	1
11031	123678-HxCDF	57117-44-9	0.158 JBQ	0.0253	5.39	1
11031	123789-HxCDF	72918-21-9	0.144 JB	0.0287	5.39	1
11031	234678-HxCDF	60851-34-5	0.271 JB	0.0259	5.39	1
11031	1234678-HpCDF	67562-39-4	2.33 JB	0.0266	5.39	1
11031	1234789-HpCDF	55673-89-7	0.235 JB	0.0324	5.39	1
11031	OCDF	39001-02-0	4.03 JB	0.0265	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 3 of 4

Sample Description: SL-072-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125332
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL072 SDG#: DX002-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 4 of 4

Sample Description: SL-072-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125332
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL072 SDG#: DX002-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10302002	11/01/2010 20:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10302002	10/29/2010 16:30	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403A	11/04/2010 11:16	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 4

Sample Description: SL-079-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125333
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL079 SDG#: DX002-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 7.3	% 0.50	% 0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-079-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125333
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL079 SDG#: DX002-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0188 JQ	0.0182	1.08	1
11031	12378-PeCDD	40321-76-4	0.162 JQ	0.0406	5.39	1
11031	123478-HxCDD	39227-28-6	0.146 JBQ	0.0401	5.39	1
11031	123678-HxCDD	57653-85-7	0.818 JBQ	0.0411	5.39	1
11031	123789-HxCDD	19408-74-3	0.789 JB	0.0425	5.39	1
11031	1234678-HpCDD	35822-46-9	14.4 B	0.0399	5.39	1
11031	OCDD	3268-87-9	169 B	0.0607	10.8	1
11031	2378-TCDF	51207-31-9	0.172 JBQ	0.0532	1.08	1
11031	12378-PeCDF	57117-41-6	0.400 JBQ	0.0314	5.39	1
11031	23478-PeCDF	57117-31-4	0.422 JB	0.0285	5.39	1
11031	123478-HxCDF	70648-26-9	0.226 JB	0.0396	5.39	1
11031	123678-HxCDF	57117-44-9	0.283 JB	0.0370	5.39	1
11031	123789-HxCDF	72918-21-9	0.472 JB	0.0400	5.39	1
11031	234678-HxCDF	60851-34-5	0.300 JB	0.0337	5.39	1
11031	1234678-HpCDF	67562-39-4	2.75 JB	0.0475	5.39	1
11031	1234789-HpCDF	55673-89-7	0.270 JBQ	0.0577	5.39	1
11031	OCDF	39001-02-0	4.24 JB	0.0282	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 3 of 4

Sample Description: SL-079-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125333
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL079 SDG#: DX002-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: SL-079-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125333
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL079 SDG#: DX002-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10302002	11/01/2010 21:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10302002	10/29/2010 16:30	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403A	11/04/2010 11:16	William C Schwebel	1

Sample Description: SL-080-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125334
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL080 SDG#: DX002-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 7.7	% 0.50	% 0.50	1

Sample Description: SL-080-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125334
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL080 SDG#: DX002-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0382 JQ	0.0189	1.08	1
11031	12378-PeCDD	40321-76-4	0.290 JQ	0.0407	5.42	1
11031	123478-HxCDD	39227-28-6	0.260 JB	0.0481	5.42	1
11031	123678-HxCDD	57653-85-7	1.25 JB	0.0502	5.42	1
11031	123789-HxCDD	19408-74-3	1.36 JB	0.0479	5.42	1
11031	1234678-HpCDD	35822-46-9	17.4 B	0.0503	5.42	1
11031	OCDD	3268-87-9	260 B	0.0646	10.8	1
11031	2378-TCDF	51207-31-9	0.135 JB	0.0371	1.08	1
11031	12378-PeCDF	57117-41-6	0.313 JBQ	0.0284	5.42	1
11031	23478-PeCDF	57117-31-4	0.354 JB	0.0243	5.42	1
11031	123478-HxCDF	70648-26-9	0.220 JB	0.0320	5.42	1
11031	123678-HxCDF	57117-44-9	0.275 JB	0.0315	5.42	1
11031	123789-HxCDF	72918-21-9	0.915 JB	0.0321	5.42	1
11031	234678-HxCDF	60851-34-5	0.284 JBQ	0.0307	5.42	1
11031	1234678-HpCDF	67562-39-4	3.23 JB	0.0280	5.42	1
11031	1234789-HpCDF	55673-89-7	0.209 JBQ	0.0333	5.42	1
11031	OCDF	39001-02-0	8.09 JB	0.0286	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-080-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125334
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL080 SDG#: DX002-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 4 of 4

Sample Description: SL-080-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125334
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 11:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL080 SDG#: DX002-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10302002	11/01/2010 22:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10302002	10/29/2010 16:30	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403A	11/04/2010 11:16	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 4

Sample Description: SL-054-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125335
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 12:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL054 SDG#: DX002-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 10.8	% 0.50	% 0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125335
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 12:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL054 SDG#: DX002-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0280 JQ	0.0136	1.12	1
11031	12378-PeCDD	40321-76-4	0.378 JQ	0.0323	5.61	1
11031	123478-HxCDD	39227-28-6	0.302 JBQ	0.0328	5.61	1
11031	123678-HxCDD	57653-85-7	1.10 JB	0.0320	5.61	1
11031	123789-HxCDD	19408-74-3	0.887 JB	0.0320	5.61	1
11031	1234678-HpCDD	35822-46-9	24.4 B	0.0349	5.61	1
11031	OCDD	3268-87-9	264 B	0.0383	11.2	1
11031	2378-TCDF	51207-31-9	0.435 JB	0.0535	1.12	1
11031	12378-PeCDF	57117-41-6	0.914 JB	0.0279	5.61	1
11031	23478-PeCDF	57117-31-4	0.740 JB	0.0249	5.61	1
11031	123478-HxCDF	70648-26-9	0.615 JB	0.0275	5.61	1
11031	123678-HxCDF	57117-44-9	0.499 JBQ	0.0259	5.61	1
11031	123789-HxCDF	72918-21-9	0.313 JB	0.0258	5.61	1
11031	234678-HxCDF	60851-34-5	0.479 JB	0.0265	5.61	1
11031	1234678-HpCDF	67562-39-4	3.29 JB	0.0204	5.61	1
11031	1234789-HpCDF	55673-89-7	0.344 JB	0.0249	5.61	1
11031	OCDF	39001-02-0	6.61 JB	0.0179	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-054-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125335
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 12:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL054 SDG#: DX002-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 4 of 4

Sample Description: SL-054-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125335
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 12:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL054 SDG#: DX002-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10302002	11/01/2010 23:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10302002	10/29/2010 16:30	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403A	11/04/2010 11:16	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 4

Sample Description: SL-051-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125336
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL051 SDG#: DX002-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 10.5	% 0.50	% 0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125336
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL051 SDG#: DX002-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0783 JQ	0.0219	1.12	1
11031	12378-PeCDD	40321-76-4	0.477 JQ	0.0445	5.59	1
11031	123478-HxCDD	39227-28-6	0.487 JB	0.0246	5.59	1
11031	123678-HxCDD	57653-85-7	1.61 JB	0.0250	5.59	1
11031	123789-HxCDD	19408-74-3	1.24 JB	0.0247	5.59	1
11031	1234678-HpCDD	35822-46-9	34.4 B	0.0336	5.59	1
11031	OCDD	3268-87-9	365 B	0.0451	11.2	1
11031	2378-TCDF	51207-31-9	0.774 JB	0.0628	1.12	1
11031	12378-PeCDF	57117-41-6	1.13 JB	0.0264	5.59	1
11031	23478-PeCDF	57117-31-4	1.01 JB	0.0238	5.59	1
11031	123478-HxCDF	70648-26-9	0.959 JB	0.0230	5.59	1
11031	123678-HxCDF	57117-44-9	0.876 JB	0.0220	5.59	1
11031	123789-HxCDF	72918-21-9	0.359 JB	0.0232	5.59	1
11031	234678-HxCDF	60851-34-5	0.982 JB	0.0210	5.59	1
11031	1234678-HpCDF	67562-39-4	5.19 JB	0.0232	5.59	1
11031	1234789-HpCDF	55673-89-7	0.486 JB	0.0273	5.59	1
11031	OCDF	39001-02-0	8.16 JB	0.0139	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-051-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125336
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL051 SDG#: DX002-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125336
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL051 SDG#: DX002-08BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10302002	11/02/2010 04:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10302002	10/29/2010 16:30	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403A	11/04/2010 11:16	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-051-SA5C-SS-0.0-0.5 MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SS-0.0-0.5

LLI Sample # SW 6125337
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL051 SDG#: DX002-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified	%	%	%		
11625 Moisture CDM	n.a.	10.5	0.50	0.50	1	

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA5C-SS-0.0-0.5 MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SS-0.0-0.5

LLI Sample # SW 6125337
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL051 SDG#: DX002-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	25.0	0.0354	1.12	1
11031	12378-PeCDD	40321-76-4	131	0.0565	5.59	1
11031	123478-HxCDD	39227-28-6	136	B 0.0489	5.59	1
11031	123678-HxCDD	57653-85-7	134	B 0.0497	5.59	1
11031	123789-HxCDD	19408-74-3	135	B 0.0504	5.59	1
11031	1234678-HpCDD	35822-46-9	162	B 0.0621	5.59	1
11031	OCDD	3268-87-9	524	B 0.0741	11.2	1
11031	2378-TCDF	51207-31-9	26.8	B 0.0823	1.12	1
11031	12378-PeCDF	57117-41-6	135	B 0.0391	5.59	1
11031	23478-PeCDF	57117-31-4	132	B 0.0345	5.59	1
11031	123478-HxCDF	70648-26-9	132	B 0.0584	5.59	1
11031	123678-HxCDF	57117-44-9	130	B 0.0573	5.59	1
11031	123789-HxCDF	72918-21-9	133	B 0.0622	5.59	1
11031	234678-HxCDF	60851-34-5	134	B 0.0581	5.59	1
11031	1234678-HpCDF	67562-39-4	137	B 0.0688	5.59	1
11031	1234789-HpCDF	55673-89-7	133	B 0.0825	5.59	1
11031	OCDF	39001-02-0	274	B 0.0537	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-051-SA5C-SS-0.0-0.5 MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SS-0.0-0.5

LLI Sample # SW 6125337
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL051 SDG#: DX002-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					



Analysis Report

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Page 4 of 4

Sample Description: SL-051-SA5C-SS-0.0-0.5 MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SS-0.0-0.5

LLI Sample # SW 6125337
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:30

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 10/22/2010 08:50

Suite 210

Reported: 12/13/2010 18:22

Chantilly VA 20151

SL051 SDG#: DX002-08MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10302002	11/02/2010 05:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10302002	10/29/2010 16:30	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403A	11/04/2010 11:16	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 4

Sample Description: SL-051-SA5C-SS-0.0-0.5 MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SS-0.0-0.5

LLI Sample # SW 6125338
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL051 SDG#: DX002-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified	%	%	%		
11625 Moisture CDM	n.a.	10.5	0.50	0.50	1	

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA5C-SS-0.0-0.5 MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SS-0.0-0.5

LLI Sample # SW 6125338
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL051 SDG#: DX002-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	25.0	0.0251	1.12	1
11031	12378-PeCDD	40321-76-4	129	0.0438	5.59	1
11031	123478-HxCDD	39227-28-6	136	0.0401	5.59	1
11031	123678-HxCDD	57653-85-7	130	0.0418	5.59	1
11031	123789-HxCDD	19408-74-3	132	0.0391	5.59	1
11031	1234678-HpCDD	35822-46-9	162	0.0467	5.59	1
11031	OCDD	3268-87-9	544	0.0521	11.2	1
11031	2378-TCDF	51207-31-9	26.5	0.0544	1.12	1
11031	12378-PeCDF	57117-41-6	134	0.0286	5.59	1
11031	23478-PeCDF	57117-31-4	132	0.0248	5.59	1
11031	123478-HxCDF	70648-26-9	131	0.0416	5.59	1
11031	123678-HxCDF	57117-44-9	132	0.0413	5.59	1
11031	123789-HxCDF	72918-21-9	132	0.0421	5.59	1
11031	234678-HxCDF	60851-34-5	133	0.0401	5.59	1
11031	1234678-HpCDF	67562-39-4	137	0.0504	5.59	1
11031	1234789-HpCDF	55673-89-7	133	0.0591	5.59	1
11031	OCDF	39001-02-0	268	0.0297	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-051-SA5C-SS-0.0-0.5 MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SS-0.0-0.5

LLI Sample # SW 6125338
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL051 SDG#: DX002-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-051-SA5C-SS-0.0-0.5 MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SS-0.0-0.5

LLI Sample # SW 6125338
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:30

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 10/22/2010 08:50

Suite 210

Reported: 12/13/2010 18:22

Chantilly VA 20151

SL051 SDG#: DX002-08MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10302002	11/02/2010 06:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10302002	10/29/2010 16:30	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403A	11/04/2010 11:16	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-052-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125339
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL052 SDG#: DX002-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 6.8	% 0.50	% 0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-052-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125339
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL052 SDG#: DX002-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0843 J	0.0198	1.07	1
11031	12378-PeCDD	40321-76-4	0.481 J	0.0354	5.36	1
11031	123478-HxCDD	39227-28-6	0.528 JBQ	0.0202	5.36	1
11031	123678-HxCDD	57653-85-7	1.08 JB	0.0208	5.36	1
11031	123789-HxCDD	19408-74-3	1.03 JB	0.0210	5.36	1
11031	1234678-HpCDD	35822-46-9	16.2 B	0.0242	5.36	1
11031	OCDD	3268-87-9	117 B	0.0284	10.7	1
11031	2378-TCDF	51207-31-9	0.428 JB	0.0396	1.07	1
11031	12378-PeCDF	57117-41-6	0.654 JB	0.0207	5.36	1
11031	23478-PeCDF	57117-31-4	0.681 JB	0.0185	5.36	1
11031	123478-HxCDF	70648-26-9	0.604 JB	0.0178	5.36	1
11031	123678-HxCDF	57117-44-9	0.572 JB	0.0179	5.36	1
11031	123789-HxCDF	72918-21-9	0.332 JB	0.0192	5.36	1
11031	234678-HxCDF	60851-34-5	0.540 JB	0.0182	5.36	1
11031	1234678-HpCDF	67562-39-4	2.37 JB	0.0374	5.36	1
11031	1234789-HpCDF	55673-89-7	0.388 JB	0.0468	5.36	1
11031	OCDF	39001-02-0	2.84 JB	0.0162	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	64	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-052-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125339
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL052 SDG#: DX002-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 4 of 4

Sample Description: SL-052-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125339
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

SL052 SDG#: DX002-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10302002	11/02/2010 07:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10302002	10/29/2010 16:30	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403A	11/04/2010 11:16	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 4

Sample Description: DUP02-SA5C-QC-102110 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125340
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

DUP02 SDG#: DX002-10*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 10.5	% 0.50	% 0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA5C-QC-102110 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125340
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

DUP02 SDG#: DX002-10*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0582 JQ	0.0242	1.12	1
11031	12378-PeCDD	40321-76-4	0.406 JQ	0.0430	5.59	1
11031	123478-HxCDD	39227-28-6	0.336 JB	0.0270	5.59	1
11031	123678-HxCDD	57653-85-7	1.13 JB	0.0269	5.59	1
11031	123789-HxCDD	19408-74-3	0.942 JB	0.0276	5.59	1
11031	1234678-HpCDD	35822-46-9	22.2 B	0.0299	5.59	1
11031	OCDD	3268-87-9	195 B	0.0370	11.2	1
11031	2378-TCDF	51207-31-9	0.535 JB	0.0613	1.12	1
11031	12378-PeCDF	57117-41-6	0.839 JB	0.0278	5.59	1
11031	23478-PeCDF	57117-31-4	0.863 JB	0.0245	5.59	1
11031	123478-HxCDF	70648-26-9	0.774 JBQ	0.0268	5.59	1
11031	123678-HxCDF	57117-44-9	0.708 JB	0.0256	5.59	1
11031	123789-HxCDF	72918-21-9	0.301 JB	0.0299	5.59	1
11031	234678-HxCDF	60851-34-5	0.801 JB	0.0256	5.59	1
11031	1234678-HpCDF	67562-39-4	4.00 JB	0.0397	5.59	1
11031	1234789-HpCDF	55673-89-7	0.390 JBQ	0.0466	5.59	1
11031	OCDF	39001-02-0	5.49 JB	0.0183	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 3 of 4

Sample Description: DUP02-SA5C-QC-102110 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125340
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

DUP02 SDG#: DX002-10*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: DUP02-SA5C-QC-102110 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6125340
LLI Group # 1218532
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2010 13:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/22/2010 08:50

Reported: 12/13/2010 18:22

DUP02 SDG#: DX002-10*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10302002	11/02/2010 08:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10302002	10/29/2010 16:30	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10308162403A	11/04/2010 11:16	William C Schwebel	1

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/13/10 at 06:22 PM

Group Number: 1218532

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10308162403A Moisture CDM	Sample number(s): 6125329-6125340				100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10302002	Sample number(s): 6125329-6125340								
2378-TCDD	0.00980 U	0.00980	1.00	ng/kg	111		67-158		
12378-PeCDD	0.0130 U	0.0130	5.00	ng/kg	116		70-142		
123478-HxCDD	0.0184 J	0.00980	5.00	ng/kg	119		70-164		
123678-HxCDD	0.0115 J	0.00960	5.00	ng/kg	115		76-134		
123789-HxCDD	0.0153 J	0.00990	5.00	ng/kg	116		64-162		
1234678-HpCDD	0.126 J	0.0123	5.00	ng/kg	117		70-140		
OCDD	0.292 J	0.0146	10.0	ng/kg	117		78-144		
2378-TCDF	0.0150 J	0.0113	1.00	ng/kg	114		75-158		
12378-PeCDF	0.0291 J	0.00860	5.00	ng/kg	118		80-134		
23478-PeCDF	0.0620 J	0.00790	5.00	ng/kg	116		68-160		
123478-HxCDF	0.0518 J	0.0116	5.00	ng/kg	115		72-134		
123678-HxCDF	0.0367 J	0.0107	5.00	ng/kg	117		84-130		
123789-HxCDF	0.0137 J	0.0114	5.00	ng/kg	118		78-130		
234678-HxCDF	0.0695 J	0.0112	5.00	ng/kg	118		70-156		
1234678-HpCDF	0.272 J	0.00900	5.00	ng/kg	117		82-122		
1234789-HpCDF	0.0391 J	0.0112	5.00	ng/kg	119		78-138		
OCDF	0.208 J	0.0149	10.0	ng/kg	117		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10308162403A Moisture CDM	Sample number(s): 6125329-6125340					BKG: P119986 10.5	10.7	2	20
Batch number: 10302002	Sample number(s): 6125329-6125340					UNSPK: 6125336			
2378-TCDD	111	111	67-158	0	25				
12378-PeCDD	117	115	70-142	2	25				
123478-HxCDD	121	121	70-164	0	25				
123678-HxCDD	119	115	76-134	3	25				
123789-HxCDD	119	117	64-162	2	25				
1234678-HpCDD	114	114	70-140	0	25				
OCDD	71*	80	78-144	4	25				

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/13/10 at 06:22 PM

Group Number: 1218532

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	116	115	75-158	1	25				
12378-PeCDF	120	119	80-134	1	25				
23478-PeCDF	117	117	68-160	0	25				
123478-HxCDF	117	116	72-134	1	25				
123678-HxCDF	115	117	84-130	2	25				
123789-HxCDF	118	118	78-130	1	25				
234678-HxCDF	119	118	70-156	1	25				
1234678-HpCDF	118	118	82-122	0	25				
1234789-HpCDF	119	119	78-138	0	25				
OCDF	119	116	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Dioxins/Furans in Solids-HRMS
Batch number: 10302002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6125329	78	85	77	74	77	76
6125330	82	94	79	77	81	82
6125331	84	91	78	77	79	85
6125332	78	87	79	76	79	82
6125333	77	93	75	77	80	79
6125334	80	86	79	76	78	84
6125335	80	87	79	76	79	89
6125336	81	90	76	74	78	81
6125337	82	90	79	76	78	82
6125338	84	95	82	79	81	85
6125339	68	75	67	65	66	71
6125340	75	85	75	72	75	74
Blank	71	78	74	72	73	79
MS	82	90	79	76	78	82
MSD	84	95	82	79	81	85
OPR	78	84	79	76	78	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6125329	74	70	57	88	85	76
6125330	79	75	68	92	95	79
6125331	77	75	67	90	55	80
6125332	79	75	70	85	86	80
6125333	76	70	64	84	95	78
6125334	78	74	69	88	85	79
6125335	79	75	69	87	87	79
6125336	76	75	70	89	90	78

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/13/10 at 06:22 PM

Group Number: 1218532

Surrogate Quality Control

6125337	79	77	71	92	90	79
6125338	80	78	72	91	97	82
6125339	67	63	57	76	75	67
6125340	71	67	61	84	88	72
Blank	74	68	60	83	78	76
MS	79	77	71	92	90	79
MSD	80	78	72	91	97	82
OPR	79	73	70	86	84	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6125329	73	75	73	59	80	83
6125330	76	79	79	71	83	90
6125331	75	78	77	70	81	95
6125332	75	77	79	73	80	83
6125333	73	74	74	67	77	82
6125334	74	77	77	72	81	83
6125335	75	78	78	72	79	85
6125336	75	79	79	73	81	86
6125337	74	78	80	75	82	88
6125338	77	79	81	74	83	90
6125339	64	64	66	60	68	75
6125340	69	70	70	64	78	80
Blank	72	74	71	64	71	77
MS	74	78	80	75	82	88
MSD	77	79	81	74	83	90
OPR	75	77	76	74	76	80
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

13013 ~~1217632~~ ¹²¹⁰¹⁶⁷¹¹⁰ 6119979-97
1218532 6125329-40

1217632 ^{two labels} 6119979-97
1218532 6125329-40

1217632 ^{two labels} 6119979-97
1218532 6125329-40

CHAIN OF CUSTODY RECORD

[illegible]

Per PB
on 10/29/10.
NL 4/1/10

10/2/16

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns $>25\%$
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is $<CRDL$, but $\geq IDL$
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 19, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/23/2010

Group Number: 1218582

SDG: DX003

PO Number: 1203-004-007-AL

Release Number: TRACKING #11667

State of Sample Origin: CA

Client Sample DescriptionSL-065-SA5C-SS-0.0-0.5 Grab Soil
SL-066-SA5C-SS-0.0-0.5 Grab Soil
SL-076-SA5C-SS-0.0-0.5 Grab Soil
SL-077-SA5C-SS-0.0-0.5 Grab Soil
SL-078-SA5C-SS-0.0-0.5 Grab Soil
SL-049-SA5C-SS-0.0-0.5 Grab Soil
SL-050-SA5C-SS-0.0-0.5 Grab Soil
SL-053-SA5C-SS-0.0-0.5 Grab Soil
SL-086-SA5C-SS-0.0-0.5 Grab Soil
SL-090-SA5C-SS-0.0-0.5 Grab Soil
SL-095-SA5C-SS-0.0-0.5 Grab Soil
SL-096-SA5C-SS-0.0-0.5 Grab Soil
SL-056-SA5C-SS-0.0-0.5 Grab Soil
SL-057-SA5C-SS-0.0-0.5 Grab Soil
SL-060-SA5C-SS-0.0-0.5 Grab Soil
SL-061-SA5C-SS-0.0-0.5 Grab Soil
SL-062-SA5C-SS-0.0-0.5 Grab SoilLancaster Labs (LLI) #6125518
6125519
6125520
6125521
6125522
6125523
6125524
6125525
6125526
6125527
6125528
6125529
6125530
6125531
6125532
6125533
6125534

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program

Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Charles J. Neslund
Manager



Analysis Report

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Page 1 of 4

Sample Description: SL-065-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SS-0.0-0.5

LLI Sample # SW 6125518
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL065 SDG#: DX003-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-065-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SS-0.0-0.5

LLI Sample # SW 6125518
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL065 SDG#: DX003-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0165 U	0.0165	1.13	1
11031	12378-PeCDD	40321-76-4	0.0475 U	0.0475	5.66	1
11031	123478-HxCDD	39227-28-6	0.402 JBQ	0.0469	5.66	1
11031	123678-HxCDD	57653-85-7	1.85 JB	0.0478	5.66	1
11031	123789-HxCDD	19408-74-3	1.26 JB	0.0469	5.66	1
11031	1234678-HpCDD	35822-46-9	49.2 B	0.0875	5.66	1
11031	OCDD	3268-87-9	653 B	0.0930	11.3	1
11031	2378-TCDF	51207-31-9	0.245 J	0.0773	1.13	1
11031	12378-PeCDF	57117-41-6	1.13 J	0.0442	5.66	1
11031	23478-PeCDF	57117-31-4	0.863 JB	0.0388	5.66	1
11031	123478-HxCDF	70648-26-9	0.691 JB	0.0364	5.66	1
11031	123678-HxCDF	57117-44-9	0.596 JBQ	0.0368	5.66	1
11031	123789-HxCDF	72918-21-9	0.646 JB	0.0388	5.66	1
11031	234678-HxCDF	60851-34-5	0.607 JB	0.0352	5.66	1
11031	1234678-HpCDF	67562-39-4	5.34 JB	0.0259	5.66	1
11031	1234789-HpCDF	55673-89-7	0.729 JB	0.0334	5.66	1
11031	OCDF	39001-02-0	11.8 B	0.0344	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-065-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SS-0.0-0.5

LLI Sample # SW 6125518
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL065 SDG#: DX003-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					



Analysis Report

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Page 4 of 4

Sample Description: SL-065-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SS-0.0-0.5

LLI Sample # SW 6125518
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL065 SDG#: DX003-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305003	11/04/2010 00:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10305003	11/01/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404A	11/04/2010 10:52	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 4

Sample Description: SL-066-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5C-SS-0.0-0.5

LLI Sample # SW 6125519
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL066 SDG#: DX003-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-066-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5C-SS-0.0-0.5

LLI Sample # SW 6125519
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL066 SDG#: DX003-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0279	U	0.0279	1
11031	12378-PeCDD	40321-76-4	0.0756	U	0.0756	1
11031	123478-HxCDD	39227-28-6	0.894	JBQ	0.0819	1
11031	123678-HxCDD	57653-85-7	5.77	JB	0.0801	1
11031	123789-HxCDD	19408-74-3	2.59	JB	0.0825	1
11031	1234678-HpCDD	35822-46-9	206	B	0.204	1
11031	OCDD	3268-87-9	3,340	B	0.213	1
11031	2378-TCDF	51207-31-9	0.125	U	0.125	1
11031	12378-PeCDF	57117-41-6	1.99	J	0.0635	1
11031	23478-PeCDF	57117-31-4	0.963	JB	0.0583	1
11031	123478-HxCDF	70648-26-9	2.61	JB	0.0630	1
11031	123678-HxCDF	57117-44-9	1.02	JB	0.0577	1
11031	123789-HxCDF	72918-21-9	1.63	JB	0.0704	1
11031	234678-HxCDF	60851-34-5	1.24	JB	0.0610	1
11031	1234678-HpCDF	67562-39-4	18.7	B	0.0495	1
11031	1234789-HpCDF	55673-89-7	1.79	JB	0.0736	1
11031	OCDF	39001-02-0	41.2	B	0.0799	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	60	28 - 130
13C12-123789-HxCDD	62	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-066-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5C-SS-0.0-0.5

LLI Sample # SW 6125519
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL066 SDG#: DX003-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-066-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5C-SS-0.0-0.5

LLI Sample # SW 6125519
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL066 SDG#: DX003-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305003	11/04/2010 01:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10305003	11/01/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404A	11/04/2010 10:52	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-076-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5C-SS-0.0-0.5

LLI Sample # SW 6125520
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL076 SDG#: DX003-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5C-SS-0.0-0.5

LLI Sample # SW 6125520
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL076 SDG#: DX003-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0131 U	0.0131	1.15	1
11031	12378-PeCDD	40321-76-4	0.0952 JBQ	0.0358	5.73	1
11031	123478-HxCDD	39227-28-6	0.146 JBQ	0.0349	5.73	1
11031	123678-HxCDD	57653-85-7	0.629 JB	0.0362	5.73	1
11031	123789-HxCDD	19408-74-3	0.640 JB	0.0346	5.73	1
11031	1234678-HpCDD	35822-46-9	13.9 B	0.0448	5.73	1
11031	OCDD	3268-87-9	175 B	0.0531	11.5	1
11031	2378-TCDF	51207-31-9	0.0711 JQ	0.0532	1.15	1
11031	12378-PeCDF	57117-41-6	0.252 J	0.0287	5.73	1
11031	23478-PeCDF	57117-31-4	0.294 JB	0.0261	5.73	1
11031	123478-HxCDF	70648-26-9	0.159 JBQ	0.0295	5.73	1
11031	123678-HxCDF	57117-44-9	0.243 JBQ	0.0278	5.73	1
11031	123789-HxCDF	72918-21-9	0.547 JBQ	0.0321	5.73	1
11031	234678-HxCDF	60851-34-5	0.186 JB	0.0283	5.73	1
11031	1234678-HpCDF	67562-39-4	1.71 JB	0.0212	5.73	1
11031	1234789-HpCDF	55673-89-7	0.181 JB	0.0284	5.73	1
11031	OCDF	39001-02-0	6.33 JB	0.0328	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-076-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5C-SS-0.0-0.5

LLI Sample # SW 6125520
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL076 SDG#: DX003-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-076-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5C-SS-0.0-0.5

LLI Sample # SW 6125520
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL076 SDG#: DX003-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305003	11/04/2010 02:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10305003	11/01/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404A	11/04/2010 10:52	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-077-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5C-SS-0.0-0.5

LLI Sample # SW 6125521
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL077 SDG#: DX003-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-077-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5C-SS-0.0-0.5

LLI Sample # SW 6125521
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL077 SDG#: DX003-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0244 JBQ	0.0145	1.09	1
11031	12378-PeCDD	40321-76-4	0.214 JBQ	0.0319	5.46	1
11031	123478-HxCDD	39227-28-6	0.523 JBQ	0.0578	5.46	1
11031	123678-HxCDD	57653-85-7	3.97 JB	0.0591	5.46	1
11031	123789-HxCDD	19408-74-3	1.46 JB	0.0599	5.46	1
11031	1234678-HpCDD	35822-46-9	411 B	0.296	5.46	1
11031	OCDD	3268-87-9	11,500 EB	0.222	10.9	1
11031	2378-TCDF	51207-31-9	0.0610 U	0.0610	1.09	1
11031	12378-PeCDF	57117-41-6	0.319 J	0.0360	5.46	1
11031	23478-PeCDF	57117-31-4	0.410 JBQ	0.0309	5.46	1
11031	123478-HxCDF	70648-26-9	0.286 JB	0.0279	5.46	1
11031	123678-HxCDF	57117-44-9	0.234 JBQ	0.0270	5.46	1
11031	123789-HxCDF	72918-21-9	0.244 JB	0.0307	5.46	1
11031	234678-HxCDF	60851-34-5	0.298 JBQ	0.0284	5.46	1
11031	1234678-HpCDF	67562-39-4	6.29 B	0.0414	5.46	1
11031	1234789-HpCDF	55673-89-7	0.560 JB	0.0528	5.46	1
11031	OCDF	39001-02-0	33.6 B	0.0535	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	69	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-077-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5C-SS-0.0-0.5

LLI Sample # SW 6125521
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL077 SDG#: DX003-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds						
		%Rec	Windows			
	13C12-123789-HxCDF	70	29 - 147			
	13C12-1234678-HpCDF	65	28 - 143			
	13C12-1234789-HpCDF	59	26 - 138			
	13C12-OCDF	51	17 - 157			
	13C12-1278-TCDD (CRS)	75	35 - 197			

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present
S Saturation of detection signal

Sample Description: SL-077-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5C-SS-0.0-0.5

LLI Sample # SW 6125521
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:45

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 10/23/2010 09:10

Suite 210

Reported: 01/19/2011 12:05

Chantilly VA 20151

SL077 SDG#: DX003-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305003	11/04/2010 03:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10305003	11/01/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404A	11/04/2010 10:52	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-078-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5C-SS-0.0-0.5

LLI Sample # SW 6125522
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL078 SDG#: DX003-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-078-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5C-SS-0.0-0.5

LLI Sample # SW 6125522
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL078 SDG#: DX003-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0346 JBQ	0.0259	1.10	1
11031	12378-PeCDD	40321-76-4	0.0629 U	0.0629	5.49	1
11031	123478-HxCDD	39227-28-6	0.447 JB	0.0553	5.49	1
11031	123678-HxCDD	57653-85-7	1.76 JB	0.0564	5.49	1
11031	123789-HxCDD	19408-74-3	1.43 JB	0.0569	5.49	1
11031	1234678-HpCDD	35822-46-9	38.0 B	0.0947	5.49	1
11031	OCDD	3268-87-9	440 B	0.0824	11.0	1
11031	2378-TCDF	51207-31-9	0.510 JQ	0.0877	1.10	1
11031	12378-PeCDF	57117-41-6	0.832 J	0.0594	5.49	1
11031	23478-PeCDF	57117-31-4	0.641 JBQ	0.0520	5.49	1
11031	123478-HxCDF	70648-26-9	0.816 JB	0.0426	5.49	1
11031	123678-HxCDF	57117-44-9	0.537 JB	0.0416	5.49	1
11031	123789-HxCDF	72918-21-9	0.947 JB	0.0503	5.49	1
11031	234678-HxCDF	60851-34-5	0.526 JB	0.0439	5.49	1
11031	1234678-HpCDF	67562-39-4	5.10 JB	0.0405	5.49	1
11031	1234789-HpCDF	55673-89-7	0.586 JB	0.0544	5.49	1
11031	OCDF	39001-02-0	8.80 JB	0.0394	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	57	28 - 130
13C12-123789-HxCDD	58	28 - 130
13C12-1234678-HpCDD	54	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-078-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5C-SS-0.0-0.5

LLI Sample # SW 6125522
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL078 SDG#: DX003-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-078-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5C-SS-0.0-0.5

LLI Sample # SW 6125522
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:35

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 10/23/2010 09:10

Suite 210

Reported: 01/19/2011 12:05

Chantilly VA 20151

SL078 SDG#: DX003-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305003	11/04/2010 10:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10305003	11/01/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404A	11/04/2010 10:52	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-049-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5C-SS-0.0-0.5

LLI Sample # SW 6125523
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 08:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL049 SDG#: DX003-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-049-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5C-SS-0.0-0.5

LLI Sample # SW 6125523
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 08:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL049 SDG#: DX003-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0348 U	0.0348	1.10	1
11031	12378-PeCDD	40321-76-4	0.0554 U	0.0554	5.49	1
11031	123478-HxCDD	39227-28-6	0.239 JB	0.0631	5.49	1
11031	123678-HxCDD	57653-85-7	0.898 JB	0.0659	5.49	1
11031	123789-HxCDD	19408-74-3	0.577 JB	0.0667	5.49	1
11031	1234678-HpCDD	35822-46-9	26.2 B	0.0807	5.49	1
11031	OCDD	3268-87-9	271 B	0.111	11.0	1
11031	2378-TCDF	51207-31-9	0.0670 U	0.0670	1.10	1
11031	12378-PeCDF	57117-41-6	0.362 JQ	0.0416	5.49	1
11031	23478-PeCDF	57117-31-4	0.834 JB	0.0377	5.49	1
11031	123478-HxCDF	70648-26-9	0.537 JB	0.0349	5.49	1
11031	123678-HxCDF	57117-44-9	0.425 JB	0.0347	5.49	1
11031	123789-HxCDF	72918-21-9	0.151 JB	0.0362	5.49	1
11031	234678-HxCDF	60851-34-5	0.581 JB	0.0340	5.49	1
11031	1234678-HpCDF	67562-39-4	3.51 JB	0.0584	5.49	1
11031	1234789-HpCDF	55673-89-7	0.371 JB	0.0762	5.49	1
11031	OCDF	39001-02-0	8.42 JB	0.0514	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-049-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5C-SS-0.0-0.5

LLI Sample # SW 6125523
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 08:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL049 SDG#: DX003-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-049-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5C-SS-0.0-0.5

LLI Sample # SW 6125523
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 08:35

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 10/23/2010 09:10

Suite 210

Reported: 01/19/2011 12:05

Chantilly VA 20151

SL049 SDG#: DX003-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305003	11/04/2010 11:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10305003	11/01/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404A	11/04/2010 10:52	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-050-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SS-0.0-0.5

LLI Sample # SW 6125524
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL050 SDG#: DX003-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-050-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SS-0.0-0.5

LLI Sample # SW 6125524
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL050 SDG#: DX003-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0106 U	0.0106	1.11	1
11031	12378-PeCDD	40321-76-4	0.0238 U	0.0238	5.53	1
11031	123478-HxCDD	39227-28-6	0.104 JBQ	0.0282	5.53	1
11031	123678-HxCDD	57653-85-7	0.365 JB	0.0295	5.53	1
11031	123789-HxCDD	19408-74-3	0.0281 U	0.0281	5.53	1
11031	1234678-HpCDD	35822-46-9	7.96 B	0.0384	5.53	1
11031	OCDD	3268-87-9	93.0 B	0.0364	11.1	1
11031	2378-TCDF	51207-31-9	0.0320 JQ	0.0247	1.11	1
11031	12378-PeCDF	57117-41-6	0.291 J	0.0217	5.53	1
11031	23478-PeCDF	57117-31-4	0.135 JBQ	0.0200	5.53	1
11031	123478-HxCDF	70648-26-9	0.584 JBQ	0.0252	5.53	1
11031	123678-HxCDF	57117-44-9	0.0911 JB	0.0223	5.53	1
11031	123789-HxCDF	72918-21-9	0.0885 JBQ	0.0263	5.53	1
11031	234678-HxCDF	60851-34-5	0.105 JBQ	0.0226	5.53	1
11031	1234678-HpCDF	67562-39-4	1.19 JB	0.0208	5.53	1
11031	1234789-HpCDF	55673-89-7	0.149 JB	0.0301	5.53	1
11031	OCDF	39001-02-0	2.71 JB	0.0221	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-050-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SS-0.0-0.5

LLI Sample # SW 6125524
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL050 SDG#: DX003-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-050-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SS-0.0-0.5

LLI Sample # SW 6125524
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 09:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL050 SDG#: DX003-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305003	11/04/2010 09:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10305003	11/01/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404A	11/04/2010 10:52	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-053-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5C-SS-0.0-0.5

LLI Sample # SW 6125525
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 08:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL053 SDG#: DX003-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-053-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5C-SS-0.0-0.5

LLI Sample # SW 6125525
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 08:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL053 SDG#: DX003-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0131 U	0.0131	1.10	1
11031	12378-PeCDD	40321-76-4	0.0245 U	0.0245	5.51	1
11031	123478-HxCDD	39227-28-6	0.0832 JB	0.0342	5.51	1
11031	123678-HxCDD	57653-85-7	0.239 JBQ	0.0330	5.51	1
11031	123789-HxCDD	19408-74-3	0.274 JB	0.0332	5.51	1
11031	1234678-HpCDD	35822-46-9	5.01 JB	0.0433	5.51	1
11031	OCDD	3268-87-9	56.4 B	0.0534	11.0	1
11031	2378-TCDF	51207-31-9	0.0285 J	0.0232	1.10	1
11031	12378-PeCDF	57117-41-6	0.217 JQ	0.0181	5.51	1
11031	23478-PeCDF	57117-31-4	0.151 JB	0.0169	5.51	1
11031	123478-HxCDF	70648-26-9	0.159 JBQ	0.0245	5.51	1
11031	123678-HxCDF	57117-44-9	0.0865 JBQ	0.0229	5.51	1
11031	123789-HxCDF	72918-21-9	0.137 JB	0.0271	5.51	1
11031	234678-HxCDF	60851-34-5	0.102 JBQ	0.0234	5.51	1
11031	1234678-HpCDF	67562-39-4	0.658 JB	0.0195	5.51	1
11031	1234789-HpCDF	55673-89-7	0.112 JBQ	0.0271	5.51	1
11031	OCDF	39001-02-0	1.39 JB	0.0473	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-053-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5C-SS-0.0-0.5

LLI Sample # SW 6125525
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 08:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL053 SDG#: DX003-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-053-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5C-SS-0.0-0.5

LLI Sample # SW 6125525
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 08:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL053 SDG#: DX003-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305003	11/04/2010 12:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10305003	11/01/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404A	11/04/2010 10:52	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-086-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5C-SS-0.0-0.5

LLI Sample # SW 6125526
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 15:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL086 SDG#: DX003-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-086-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5C-SS-0.0-0.5

LLI Sample # SW 6125526
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 15:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL086 SDG#: DX003-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0115 U	0.0115	1.15	1
11031	12378-PeCDD	40321-76-4	0.179 JBQ	0.0659	5.77	1
11031	123478-HxCDD	39227-28-6	0.0319 U	0.0319	5.77	1
11031	123678-HxCDD	57653-85-7	0.190 JB	0.0322	5.77	1
11031	123789-HxCDD	19408-74-3	0.188 JB	0.0318	5.77	1
11031	1234678-HpCDD	35822-46-9	2.81 JB	0.0303	5.77	1
11031	OCDD	3268-87-9	24.8 B	0.0425	11.5	1
11031	2378-TCDF	51207-31-9	0.101 J	0.0685	1.15	1
11031	12378-PeCDF	57117-41-6	9.01	0.0509	5.77	1
11031	23478-PeCDF	57117-31-4	0.305 JBQ	0.0441	5.77	1
11031	123478-HxCDF	70648-26-9	3.32 JB	0.0351	5.77	1
11031	123678-HxCDF	57117-44-9	1.39 JB	0.0344	5.77	1
11031	123789-HxCDF	72918-21-9	0.121 JB	0.0408	5.77	1
11031	234678-HxCDF	60851-34-5	0.170 JBQ	0.0348	5.77	1
11031	1234678-HpCDF	67562-39-4	1.92 JB	0.0789	5.77	1
11031	1234789-HpCDF	55673-89-7	0.788 JBQ	0.109	5.77	1
11031	OCDF	39001-02-0	6.54 JB	0.0319	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-086-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5C-SS-0.0-0.5

LLI Sample # SW 6125526
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 15:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL086 SDG#: DX003-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-086-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5C-SS-0.0-0.5

LLI Sample # SW 6125526
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 15:05

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 10/23/2010 09:10

Suite 210

Reported: 01/19/2011 12:05

Chantilly VA 20151

SL086 SDG#: DX003-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305003	11/04/2010 13:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10305003	11/01/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404B	11/04/2010 10:52	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-090-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5C-SS-0.0-0.5

LLI Sample # SW 6125527
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 14:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL090 SDG#: DX003-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-090-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5C-SS-0.0-0.5

LLI Sample # SW 6125527
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 14:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL090 SDG#: DX003-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.391	JB 0.0546	1.13	1
11031	12378-PeCDD	40321-76-4	2.66	JB 0.163	5.65	1
11031	123478-HxCDD	39227-28-6	2.90	JB 0.0661	5.65	1
11031	123678-HxCDD	57653-85-7	7.95	B 0.0696	5.65	1
11031	123789-HxCDD	19408-74-3	5.66	B 0.0681	5.65	1
11031	1234678-HpCDD	35822-46-9	186	B 0.154	5.65	1
11031	OCDD	3268-87-9	1,960	B 0.120	11.3	1
11031	2378-TCDF	51207-31-9	0.772	J 0.106	1.13	1
11031	12378-PeCDF	57117-41-6	0.940	J 0.0523	5.65	1
11031	23478-PeCDF	57117-31-4	1.50	JB 0.0507	5.65	1
11031	123478-HxCDF	70648-26-9	2.15	JB 0.0427	5.65	1
11031	123678-HxCDF	57117-44-9	1.72	JB 0.0409	5.65	1
11031	123789-HxCDF	72918-21-9	0.624	JB 0.0443	5.65	1
11031	234678-HxCDF	60851-34-5	1.90	JB 0.0421	5.65	1
11031	1234678-HpCDF	67562-39-4	25.2	B 0.0877	5.65	1
11031	1234789-HpCDF	55673-89-7	1.71	JB 0.114	5.65	1
11031	OCDF	39001-02-0	54.7	B 0.0524	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	58	28 - 130
13C12-123789-HxCDD	60	28 - 130
13C12-1234678-HpCDD	56	23 - 140
13C12-OCDD	43	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-090-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5C-SS-0.0-0.5

LLI Sample # SW 6125527
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 14:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL090 SDG#: DX003-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					



Analysis Report

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Page 4 of 4

Sample Description: SL-090-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5C-SS-0.0-0.5

LLI Sample # SW 6125527
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 14:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL090 SDG#: DX003-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305003	11/04/2010 14:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10305003	11/01/2010 10:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404B	11/04/2010 10:52	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 4

Sample Description: SL-095-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5C-SS-0.0-0.5

LLI Sample # SW 6125528
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 14:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL095 SDG#: DX003-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-095-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5C-SS-0.0-0.5

LLI Sample # SW 6125528
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 14:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL095 SDG#: DX003-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0108 JQ	0.00944	1.17	1
11031	12378-PeCDD	40321-76-4	0.0725 JB	0.0181	5.83	1
11031	123478-HxCDD	39227-28-6	0.0880 JBQ	0.0204	5.83	1
11031	123678-HxCDD	57653-85-7	0.633 JB	0.0210	5.83	1
11031	123789-HxCDD	19408-74-3	0.519 JB	0.0214	5.83	1
11031	1234678-HpCDD	35822-46-9	32.2 B	0.0343	5.83	1
11031	OCDD	3268-87-9	258 B	0.0348	11.7	1
11031	2378-TCDF	51207-31-9	0.0227 JBQ	0.0154	1.17	1
11031	12378-PeCDF	57117-41-6	0.226 JB	0.0119	5.83	1
11031	23478-PeCDF	57117-31-4	0.0665 JBQ	0.0104	5.83	1
11031	123478-HxCDF	70648-26-9	0.0900 JBQ	0.0124	5.83	1
11031	123678-HxCDF	57117-44-9	0.103 JB	0.0117	5.83	1
11031	123789-HxCDF	72918-21-9	0.442 JB	0.0140	5.83	1
11031	234678-HxCDF	60851-34-5	0.107 JBQ	0.0128	5.83	1
11031	1234678-HpCDF	67562-39-4	2.33 JB	0.0230	5.83	1
11031	1234789-HpCDF	55673-89-7	0.194 JB	0.0312	5.83	1
11031	OCDF	39001-02-0	7.88 JB	0.0198	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-095-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5C-SS-0.0-0.5

LLI Sample # SW 6125528
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 14:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL095 SDG#: DX003-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-095-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5C-SS-0.0-0.5

LLI Sample # SW 6125528
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 14:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL095 SDG#: DX003-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10308002	11/09/2010 19:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10308002	11/04/2010 13:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404B	11/04/2010 10:52	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-096-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA5C-SS-0.0-0.5

LLI Sample # SW 6125529
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 14:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL096 SDG#: DX003-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-096-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA5C-SS-0.0-0.5

LLI Sample # SW 6125529
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 14:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL096 SDG#: DX003-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0359 J	0.0210	1.10	1
11031	12378-PeCDD	40321-76-4	0.453 JB	0.0669	5.51	1
11031	123478-HxCDD	39227-28-6	2.72 JB	0.0514	5.51	1
11031	123678-HxCDD	57653-85-7	2.39 JB	0.0511	5.51	1
11031	123789-HxCDD	19408-74-3	1.93 JB	0.0497	5.51	1
11031	1234678-HpCDD	35822-46-9	97.8 B	0.110	5.51	1
11031	OCDD	3268-87-9	899 B	0.164	11.0	1
11031	2378-TCDF	51207-31-9	0.142 JBQ	0.0389	1.10	1
11031	12378-PeCDF	57117-41-6	0.412 JB	0.0256	5.51	1
11031	23478-PeCDF	57117-31-4	0.498 JB	0.0225	5.51	1
11031	123478-HxCDF	70648-26-9	0.693 JB	0.0376	5.51	1
11031	123678-HxCDF	57117-44-9	0.416 JB	0.0362	5.51	1
11031	123789-HxCDF	72918-21-9	1.19 JB	0.0382	5.51	1
11031	234678-HxCDF	60851-34-5	0.487 JBQ	0.0357	5.51	1
11031	1234678-HpCDF	67562-39-4	9.93 B	0.0753	5.51	1
11031	1234789-HpCDF	55673-89-7	0.717 JB	0.0882	5.51	1
11031	OCDF	39001-02-0	17.5 B	0.0415	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-096-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA5C-SS-0.0-0.5

LLI Sample # SW 6125529
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 14:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL096 SDG#: DX003-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					



Analysis Report

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Page 4 of 4

Sample Description: SL-096-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA5C-SS-0.0-0.5

LLI Sample # SW 6125529
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 14:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL096 SDG#: DX003-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10308002	11/09/2010 20:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10308002	11/04/2010 13:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404B	11/04/2010 10:52	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 4

Sample Description: SL-056-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SS-0.0-0.5

LLI Sample # SW 6125530
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 11:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL097 SDG#: DX003-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-056-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SS-0.0-0.5

LLI Sample # SW 6125530
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 11:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL097 SDG#: DX003-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	2.51	0.209	1.18	1
11031	12378-PeCDD	40321-76-4	16.9	0.686	5.90	1
			B			
11031	123478-HxCDD	39227-28-6	1.83	1.83	5.90	1
			U			
11031	123678-HxCDD	57653-85-7	332	2.05	5.90	1
			B			
11031	123789-HxCDD	19408-74-3	134	1.90	5.90	1
			B			
11031	1234678-HpCDD	35822-46-9	12,900	9.59	5.90	1
			EB			
11031	OCDD	3268-87-9	76,600	6.39	11.8	1
			EB			
11031	2378-TCDF	51207-31-9	5.57	0.405	1.18	1
			BQ			
11031	12378-PeCDF	57117-41-6	4.48	0.335	5.90	1
			JB			
11031	23478-PeCDF	57117-31-4	15.6	0.367	5.90	1
			B			
11031	123478-HxCDF	70648-26-9	19.9	0.710	5.90	1
			B			
11031	123678-HxCDF	57117-44-9	9.66	0.704	5.90	1
			B			
11031	123789-HxCDF	72918-21-9	2.30	0.641	5.90	1
			JBQ			
11031	234678-HxCDF	60851-34-5	15.0	0.657	5.90	1
			B			
11031	1234678-HpCDF	67562-39-4	110	2.05	5.90	1
			B			
11031	1234789-HpCDF	55673-89-7	11.0	1.90	5.90	1
			BQ			
11031	OCDF	39001-02-0	265	1.31	11.8	1
			B			

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	51	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	52	23 - 140
13C12-OCDD	38	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	79	29 - 147

*=This limit was used in the evaluation of the final result

Sample Description: SL-056-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SS-0.0-0.5

LLI Sample # SW 6125530
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 11:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL097 SDG#: DX003-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds						
		%Rec	Windows			
	13C12-1234678-HpCDF	49	28 - 143			
	13C12-1234789-HpCDF	57	26 - 138			
	13C12-OCDF	36	17 - 157			
	13C12-1278-TCDD (CRS)	82	35 - 197			

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present
S Saturation of detection signal

Sample Description: SL-056-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5C-SS-0.0-0.5

LLI Sample # SW 6125530
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 11:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL097 SDG#: DX003-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10308002	11/10/2010 01:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10308002	11/04/2010 13:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404B	11/04/2010 10:52	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-057-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SS-0.0-0.5

LLI Sample # SW 6125531
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL057 SDG#: DX003-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SS-0.0-0.5

LLI Sample # SW 6125531
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL057 SDG#: DX003-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	2.09	0.0536	1.06	1
11031	12378-PeCDD	40321-76-4	8.47	0.123	5.32	1
			B			
11031	123478-HxCDD	39227-28-6	21.3	0.0874	5.32	1
			B			
11031	123678-HxCDD	57653-85-7	155	0.0913	5.32	1
			B			
11031	123789-HxCDD	19408-74-3	91.4	0.0889	5.32	1
			B			
11031	1234678-HpCDD	35822-46-9	7,210	0.244	5.32	1
			EB			
11031	OCDD	3268-87-9	52,200	0.279	10.6	1
			EB			
11031	2378-TCDF	51207-31-9	0.292	0.0555	1.06	1
			JBQ			
11031	12378-PeCDF	57117-41-6	0.722	0.0322	5.32	1
			JB			
11031	23478-PeCDF	57117-31-4	1.00	0.0382	5.32	1
			JB			
11031	123478-HxCDF	70648-26-9	3.01	0.0381	5.32	1
			JB			
11031	123678-HxCDF	57117-44-9	1.62	0.0350	5.32	1
			JB			
11031	123789-HxCDF	72918-21-9	0.488	0.0406	5.32	1
			JB			
11031	234678-HxCDF	60851-34-5	2.27	0.0362	5.32	1
			JB			
11031	1234678-HpCDF	67562-39-4	43.3	0.0551	5.32	1
			B			
11031	1234789-HpCDF	55673-89-7	3.89	0.0720	5.32	1
			JB			
11031	OCDF	39001-02-0	103	0.0380	10.6	1
			B			

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	77	29 - 147

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SS-0.0-0.5

LLI Sample # SW 6125531
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL057 SDG#: DX003-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds						
		%Rec	Windows			
	13C12-1234678-HpCDF	80	28 - 143			
	13C12-1234789-HpCDF	72	26 - 138			
	13C12-OCDF	63	17 - 157			
	13C12-1278-TCDD (CRS)	83	35 - 197			

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present
S Saturation of detection signal



Analysis Report

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Page 4 of 4

Sample Description: SL-057-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SS-0.0-0.5

LLI Sample # SW 6125531
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL057 SDG#: DX003-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10308002	11/09/2010 21:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10308002	11/04/2010 13:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404B	11/04/2010 10:52	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 4

Sample Description: SL-060-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SS-0.0-0.5

LLI Sample # SW 6125532
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL060 SDG#: DX003-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SS-0.0-0.5

LLI Sample # SW 6125532
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL060 SDG#: DX003-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0385 J	0.0222	1.08	1
11031	12378-PeCDD	40321-76-4	0.148 JB	0.0339	5.39	1
11031	123478-HxCDD	39227-28-6	0.241 JBQ	0.0450	5.39	1
11031	123678-HxCDD	57653-85-7	1.10 JB	0.0450	5.39	1
11031	123789-HxCDD	19408-74-3	0.792 JB	0.0465	5.39	1
11031	1234678-HpCDD	35822-46-9	54.9 B	0.0638	5.39	1
11031	OCDD	3268-87-9	871 B	0.0982	10.8	1
11031	2378-TCDF	51207-31-9	0.0856 JBQ	0.0409	1.08	1
11031	12378-PeCDF	57117-41-6	0.305 JBQ	0.0271	5.39	1
11031	23478-PeCDF	57117-31-4	0.263 JBQ	0.0246	5.39	1
11031	123478-HxCDF	70648-26-9	0.280 JBQ	0.0297	5.39	1
11031	123678-HxCDF	57117-44-9	0.275 JB	0.0275	5.39	1
11031	123789-HxCDF	72918-21-9	0.337 JB	0.0340	5.39	1
11031	234678-HxCDF	60851-34-5	0.276 JB	0.0288	5.39	1
11031	1234678-HpCDF	67562-39-4	3.24 JB	0.0497	5.39	1
11031	1234789-HpCDF	55673-89-7	0.399 JB	0.0598	5.39	1
11031	OCDF	39001-02-0	7.79 JB	0.0380	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	61	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-060-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SS-0.0-0.5

LLI Sample # SW 6125532
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:30

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL060 SDG#: DX003-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-060-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SS-0.0-0.5

LLI Sample # SW 6125532
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL060 SDG#: DX003-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10308002	11/09/2010 22:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10308002	11/04/2010 13:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404B	11/04/2010 10:52	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-061-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SS-0.0-0.5

LLI Sample # SW 6125533
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL061 SDG#: DX003-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-061-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SS-0.0-0.5

LLI Sample # SW 6125533
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL061 SDG#: DX003-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0173 J	0.0118	1.09	1
11031	12378-PeCDD	40321-76-4	0.124 JBQ	0.0214	5.44	1
11031	123478-HxCDD	39227-28-6	0.163 JB	0.0237	5.44	1
11031	123678-HxCDD	57653-85-7	0.517 JB	0.0244	5.44	1
11031	123789-HxCDD	19408-74-3	0.388 JBQ	0.0244	5.44	1
11031	1234678-HpCDD	35822-46-9	15.7 B	0.0325	5.44	1
11031	OCDD	3268-87-9	185 B	0.0416	10.9	1
11031	2378-TCDF	51207-31-9	0.102 JBQ	0.0336	1.09	1
11031	12378-PeCDF	57117-41-6	0.325 JB	0.0206	5.44	1
11031	23478-PeCDF	57117-31-4	0.284 JB	0.0182	5.44	1
11031	123478-HxCDF	70648-26-9	0.207 JBQ	0.0209	5.44	1
11031	123678-HxCDF	57117-44-9	0.196 JB	0.0190	5.44	1
11031	123789-HxCDF	72918-21-9	0.165 JBQ	0.0245	5.44	1
11031	234678-HxCDF	60851-34-5	0.236 JBQ	0.0206	5.44	1
11031	1234678-HpCDF	67562-39-4	1.96 JB	0.0368	5.44	1
11031	1234789-HpCDF	55673-89-7	0.276 JBQ	0.0484	5.44	1
11031	OCDF	39001-02-0	4.25 JB	0.0194	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	96	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-061-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SS-0.0-0.5

LLI Sample # SW 6125533
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL061 SDG#: DX003-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-061-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SS-0.0-0.5

LLI Sample # SW 6125533
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:40

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 10/23/2010 09:10

Suite 210

Reported: 01/19/2011 12:05

Chantilly VA 20151

SL061 SDG#: DX003-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10308002	11/09/2010 23:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10308002	11/04/2010 13:30	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404B	11/04/2010 10:52	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-062-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5C-SS-0.0-0.5

LLI Sample # SW 6125534
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL062 SDG#: DX003-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-062-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5C-SS-0.0-0.5

LLI Sample # SW 6125534
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL062 SDG#: DX003-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0267 JB	0.0107	1.15	1
11031	12378-PeCDD	40321-76-4	0.199 JB	0.0278	5.75	1
11031	123478-HxCDD	39227-28-6	0.326 JB	0.0264	5.75	1
11031	123678-HxCDD	57653-85-7	1.29 JB	0.0259	5.75	1
11031	123789-HxCDD	19408-74-3	0.888 JB	0.0255	5.75	1
11031	1234678-HpCDD	35822-46-9	47.3 B	0.0403	5.75	1
11031	OCDD	3268-87-9	715 B	0.0524	11.5	1
11031	2378-TCDF	51207-31-9	0.197 JBQ	0.0341	1.15	1
11031	12378-PeCDF	57117-41-6	0.637 JB	0.0178	5.75	1
11031	23478-PeCDF	57117-31-4	0.739 JB	0.0167	5.75	1
11031	123478-HxCDF	70648-26-9	1.22 JB	0.0244	5.75	1
11031	123678-HxCDF	57117-44-9	1.27 JB	0.0229	5.75	1
11031	123789-HxCDF	72918-21-9	0.454 JB	0.0263	5.75	1
11031	234678-HxCDF	60851-34-5	1.02 JB	0.0229	5.75	1
11031	1234678-HpCDF	67562-39-4	10.7 B	0.0495	5.75	1
11031	1234789-HpCDF	55673-89-7	1.61 JB	0.0582	5.75	1
11031	OCDF	39001-02-0	30.5 B	0.0429	11.5	1

The analysis for dioxin/furan was reported from an extraction of the sample that was outside of a client specified extraction holding time.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column

Sample Description: SL-062-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5C-SS-0.0-0.5

LLI Sample # SW 6125534
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL062 SDG#: DX003-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Q	EMPC - Estimated Maximum Possible Concentration					
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-062-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5C-SS-0.0-0.5

LLI Sample # SW 6125534
LLI Group # 1218582
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/22/2010 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/23/2010 09:10

Reported: 01/19/2011 12:05

SL062 SDG#: DX003-17*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10340002	12/16/2010 01:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	10340002	12/06/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162404B	11/04/2010 10:52	William C Schwebel	1

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/19/11 at 12:05 PM

Group Number: 1218582

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10308162404A 28a Moisture Content by 160.3	Sample number(s): 6125518-6125525				100		80-120		
Batch number: 10308162404B 28a Moisture Content by 160.3	Sample number(s): 6125526-6125534				100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10305003	Sample number(s): 6125518-6125527								
2378-TCDD	0.0227 J	0.0159	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0442 J	0.0239	5.00	ng/kg	109		70-142		
123478-HxCDD	0.0358 J	0.0177	5.00	ng/kg	112		70-164		
123678-HxCDD	0.0351 J	0.0171	5.00	ng/kg	106		76-134		
123789-HxCDD	0.0617 J	0.0173	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.107 J	0.0190	5.00	ng/kg	108		70-140		
OCDD	0.750 J	0.0359	10.0	ng/kg	108		78-144		
2378-TCDF	0.0170 U	0.0170	1.00	ng/kg	106		75-158		
12378-PeCDF	0.0135 U	0.0135	5.00	ng/kg	107		80-134		
23478-PeCDF	0.0781 J	0.0132	5.00	ng/kg	108		68-160		
123478-HxCDF	0.0604 J	0.0143	5.00	ng/kg	107		72-134		
123678-HxCDF	0.0609 J	0.0128	5.00	ng/kg	107		84-130		
123789-HxCDF	0.0935 J	0.0153	5.00	ng/kg	106		78-130		
234678-HxCDF	0.0684 J	0.0139	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.146 J	0.00990	5.00	ng/kg	106		82-122		
1234789-HpCDF	0.0734 J	0.0164	5.00	ng/kg	107		78-138		
OCDF	0.286 J	0.0279	10.0	ng/kg	109		63-170		
Batch number: 10308002	Sample number(s): 6125528-6125533								
2378-TCDD	0.00990 U	0.00990	1.00	ng/kg	105		67-158		
12378-PeCDD	0.0146 J	0.0117	5.00	ng/kg	106		70-142		
123478-HxCDD	0.0279 J	0.00960	5.00	ng/kg	108		70-164		
123678-HxCDD	0.0241 J	0.00950	5.00	ng/kg	107		76-134		
123789-HxCDD	0.0338 J	0.0101	5.00	ng/kg	107		64-162		
1234678-HpCDD	0.106 J	0.0110	5.00	ng/kg	107		70-140		
OCDD	0.215 J	0.0134	10.0	ng/kg	107		78-144		
2378-TCDF	0.0211 J	0.00990	1.00	ng/kg	107		75-158		
12378-PeCDF	0.0355 J	0.00700	5.00	ng/kg	106		80-134		
23478-PeCDF	0.0571 J	0.00650	5.00	ng/kg	108		68-160		
123478-HxCDF	0.0543 J	0.00850	5.00	ng/kg	107		72-134		
123678-HxCDF	0.0375 J	0.00750	5.00	ng/kg	106		84-130		
123789-HxCDF	0.0673 J	0.00890	5.00	ng/kg	107		78-130		
234678-HpCDF	0.0469 J	0.00810	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.128 J	0.00540	5.00	ng/kg	107		82-122		
1234789-HpCDF	0.0802 J	0.00760	5.00	ng/kg	110		78-138		
OCDF	0.169 J	0.0117	10.0	ng/kg	108		63-170		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/19/11 at 12:05 PM

Group Number: 1218582

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10340002	Sample number(s): 6125534								
2378-TCDD	0.00867 J	0.00580	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0365 J	0.00860	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0217 J	0.00840	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0254 J	0.00860	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0228 J	0.00860	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.167 J	0.0108	5.00	ng/kg	103		70-140		
OCDD	0.285 J	0.0115	10.0	ng/kg	103		78-144		
2378-TCDF	0.0155 J	0.00700	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0423 J	0.00570	5.00	ng/kg	102		80-134		
23478-PeCDF	0.110 J	0.00530	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0938 J	0.0104	5.00	ng/kg	102		72-134		
123678-HxCDF	0.0743 J	0.00990	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0541 J	0.0115	5.00	ng/kg	100		78-130		
234678-HxCDF	0.124 J	0.0104	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.453 J	0.00690	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.0638 J	0.00880	5.00	ng/kg	103		78-138		
OCDF	0.272 J	0.00990	10.0	ng/kg	102		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10308162404A	Sample number(s): 6125518-6125525 BKG: P120956								
28a Moisture Content by 160.3						9.6	9.9	3	20
Batch number: 10308162404B	Sample number(s): 6125526-6125534 BKG: P120958								
28a Moisture Content by 160.3						13.4	14.7	10	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 10305003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6125518	76	81	72	70	72	71
6125519	68	74	63	63	63	59
6125520	74	78	68	66	67	64
6125521	74	79	69	68	69	70
6125522	63	69	62	59	59	58
6125523	83	88	79	75	77	75
6125524	68	76	66	70	69	64
6125525	79	79	70	71	71	70
6125526	84	91	79	76	78	74
6125527	69	73	62	61	60	61

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/19/11 at 12:05 PM

Group Number: 1218582

Surrogate Quality Control

Blank	73	75	68	71	68	66
OPR	74	80	69	73	70	65
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6125518	70	61	48	80	80	73
6125519	68	53	43	73	74	64
6125520	66	56	45	76	77	69
6125521	65	59	51	75	81	69
6125522	59	50	41	69	68	60
6125523	75	67	52	85	87	81
6125524	73	55	44	73	78	70
6125525	76	60	46	77	80	71
6125526	79	65	51	85	90	78
6125527	59	53	39	69	73	63
Blank	81	55	44	79	77	70
OPR	83	55	44	80	83	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6125518	68	70	69	57	74	79
6125519	60	62	61	54	65	73
6125520	64	66	64	55	71	75
6125521	64	66	63	57	71	73
6125522	57	58	54	46	64	69
6125523	73	77	74	61	79	85
6125524	64	66	62	51	66	72
6125525	68	73	69	58	76	80
6125526	74	77	73	60	81	86
6125527	58	60	56	43	65	70
Blank	67	69	66	60	69	79
OPR	68	69	67	58	71	81
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
Analysis Name: 10a Dioxin/Furan by EPA 1613B						
Batch number: 10308002						
	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6125528	69	80	73	72	71	72
6125529	81	85	76	71	75	77
6125530	84	75	79	56	73	79
6125531	78	90	78	79	78	77
6125532	65	74	62	62	62	60
6125533	79	92	78	80	79	75
Blank	85	89	82	83	82	81
OPR	81	90	78	82	82	83
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/19/11 at 12:05 PM

Group Number: 1218582

Surrogate Quality Control

6125528	72	62	55	78	79	74
6125529	74	72	63	84	86	79
6125530	49	57	36	82	87	86
6125531	80	72	63	83	97	81
6125532	62	58	50	73	75	64
6125533	82	72	63	86	96	82
Blank	90	73	64	96	93	87
OPR	83	70	60	87	96	84
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6125528	68	70	68	59	72	78
6125529	71	77	75	67	77	82
6125530	51	72	52	38	83	85
6125531	75	77	79	70	79	89
6125532	61	63	61	54	66	71
6125533	77	79	78	69	81	87
Blank	82	83	82	72	83	93
OPR	77	80	77	68	78	86
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
Analysis Name: 10a Dioxin/Furan by EPA 1613B						
Batch number: 10340002						
	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6125534	77	77	64	65	67	65
Blank	68	69	66	66	64	66
OPR	74	74	69	69	69	71
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6125534	65	62	52	79	80	69
Blank	67	61	54	75	72	72
OPR	75	65	57	79	79	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6125534	66	70	67	57	73	77
Blank	67	67	68	60	67	69
OPR	72	74	75	71	70	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1217701
 1218582
 sample# 6120950-66
 6125518-34

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						CHAIN OF CUSTODY RECORD																Other Instructions and Notes				
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP Perchlorate non-detects to be confirmed using EPA 6850 on samples selected by Lancaster Labs Samplers: (Signature) <i>Anna K. Heston</i>						VOCS EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCS EPA 8270C	PAHS EPA 8270SIM	TPH g/mo/d EPA 8015B	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Pesticides EPA 8081A	*Herbicides EPA 8151	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A		**m-NDMA EPA 1625C	**Emergencs EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																					
SL-065-SA5C-SS-0.0-0.5	10.22.10	1010	soil	none	1 brass sleeve																					
SL-066-SA5C-SS-0.0-0.5	10.22.10	0920	soil	none	1 brass sleeve																					
SL-076-SA5C-SS-0.0-0.5	10.22.10	1000	soil	none	1 brass sleeve																					
SL-077-SA5C-SS-0.0-0.5	10.22.10	0945	soil	none	1 brass sleeve																					
SL-078-SA5C-SS-0.0-0.5	10.22.10	0935	soil	none	1 brass sleeve																					
SL-049-SA5C-SS-0.0-0.5	10.22.10	0835	soil	none	1 brass sleeve																					
SL-050-SA5C-SS-0.0-0.5	10.22.10	0910	soil	none	1 brass sleeve																					
SL-053-SA5C-SS-0.0-0.5	10.22.10	0855	soil	none	1 brass sleeve																					
SL-065-SA5C-SS-0.0-0.5	10.22.10	1010	soil	none	1-16 oz jar																					
SL-066-SA5C-SS-0.0-0.5	10.22.10	0920	soil	none	1-16 oz jar																					
SL-076-SA5C-SS-0.0-0.5	10.22.10	1000	soil	none	1-16 oz jar																					
SL-077-SA5C-SS-0.0-0.5	10.22.10	0945	soil	none	1-16 oz jar																					
SL-078-SA5C-SS-0.0-0.5	10.22.10	0935	soil	none	1-16 oz jar																					
SL-049-SA5C-SS-0.0-0.5	10.22.10	0835	soil	none	1-16 oz jar																					
SL-050-SA5C-SS-0.0-0.5	10.22.10	0910	soil	none	1-16 oz jar																					
SL-053-SA5C-SS-0.0-0.5	10.22.10	0855	soil	none	1-16 oz jar																					
Relinquished by: (Signature) <i>Anna K. Heston</i>	Date/Time 10-22-10 1700	Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory: Lancaster Laboratories, Inc.																			
Received by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Airbill No. 101240 0910 8728 5289 3385																				

acct# 13013 Cup# 1217701
 1218582
 Sample# 6125518-34
 6125518-34

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						CHAIN OF CUSTODY RECORD															Other Instructions and Notes					
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP Perchlorate non-detects to be confirmed using EPA 6850 on samples selected by Lancaster Labs Samplers: (Signature) <i>Theresa K. Miller</i>						VOCs EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C	PAHs EPA 8270SIM	TPH g/mo/l EPA 8015B	*Metals EPA 6010/6020B/7471A	*Hex Chrome EPA 7159*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1631B	*Perchlorate EPA 314.0	*Pesticides EPA 8081A	*Herbicides EPA 8151	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A		**Hydrazine EPA 8315A	**p-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 8330A	**pH EPA 9045C
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																					
SL-086-SA5C-SS-0.0-0.5	10.22.10	1505	soil		1 brass sleeves																					
SL-090-SA5C-SS-0.0-0.5	10.22.10	1445	soil		1 brass sleeves																					
SL-095-SA5C-SS-0.0-0.5	10.22.10	1415	soil		1 brass sleeves																					
SL-096-SA5C-SS-0.0-0.5	10.22.10	1425	soil		1 brass sleeves																					
SL-086-SA5C-SS-0.0-0.5	10.22.10	1505	soil		1-16 oz jar																					
SL-090-SA5C-SS-0.0-0.5	10.22.10	1445	soil		1-16 oz jar																					
SL-095-SA5C-SS-0.0-0.5	10.22.10	1415	soil		1-16 oz jar																					
SL-096-SA5C-SS-0.0-0.5	10.22.10	1425	soil		1-16 oz jar																					
SL-086-SA5C-SS-0.0-0.5		1115	soil		1 brass sleeve																					
↓		1115	soil		1-16 oz jar																					
SL-087-SA5C-SS-0.0-0.5		1130			1 brass sleeve																					
↓		1130			1-16 oz jar																					
SL-060-SA5C-SS-0.0-0.5		1030			1 brass sleeve																					
↓		1030			1-16 oz jar																					
SL-061-SA5C-SS-0.0-0.5		1040			1-16 oz jar																					
↓		1040			1 brass sleeve																					
Relinquished by: (Signature) <i>Theresa K. Miller</i>	Date/Time	Relinquished by: (Signature)		Date/Time	Relinquished by: (Signature)		Date/Time	Relinquished by: (Signature)		Date/Time	Relinquished by: (Signature)		Date/Time	Relinquished by: (Signature)		Date/Time	Relinquished by: (Signature)		Date/Time	Relinquished by: (Signature)		Date/Time	Relinquished by: (Signature)			
Received by: (Signature)	Date/Time	Received by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Received by: (Signature)			
Laboratory: Lancaster Laboratories, Inc.						Airbill No. 8728 5289 3385																				

SL-062-SA5C-SS-0.0-0.5 10.22.10 1050
 ↓
 1050

1- brass sleeve
 1- 16oz jar

x x x x x x x x

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 26, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/27/2010

Group Number: 1218363

SDG: DX004

PO Number: 1203-004-007-AL

Release Number: TRACKING #11667

State of Sample Origin: CA

Client Sample DescriptionLancaster Labs (LLI) #

SL-047-SA5C-SS-0.0-0.5 Grab Soil	6124500
SL-045-SA5C-SS-0.0-0.5 Grab Soil	6124501
SL-027-SA5C-SS-0.0-0.5 Grab Soil	6124502
SL-032-SA5C-SS-0.0-0.5 Grab Soil	6124503
SL-026-SA5C-SS-0.0-0.5 Grab Soil	6124504
SL-038-SA5C-SS-0.0-0.5 Grab Soil	6124505
EB01-SA5C-102510 Grab Water	6124506
FB01-SA5C-102510 Grab Water	6124507
SL-041-SA5C-SS-0.0-0.5 Grab Soil	6124508
SL-041-SA5C-SS-0.0-0.5 MS Grab Soil	6124509
SL-041-SA5C-SS-0.0-0.5 MSD Grab Soil	6124510
SL-043-SA5C-SS-0.0-0.5 Grab Soil	6124511
DUP03-SA5C-QC-102510 Grab Soil	6124512
SL-008-SA5C-SS-0.0-0.5 Grab Soil	6124513
SL-020-SA5C-SS-0.0-0.5 Grab Soil	6124514
SL-018-SA5C-SS-0.0-0.5 Grab Soil	6124515
SL-012-SA5C-SS-0.0-0.5 Grab Soil	6124516
SL-024-SA5C-SS-0.0-0.5 Grab Soil	6124517
SL-004-SA5C-SS-0.0-0.5 Grab Soil	6124518
SL-001-SA5C-SS-0.0-0.5 Grab Soil	6124519
SL-002-SA5C-SS-0.0-0.5 Grab Soil	6124520
SL-033-SA5C-SS-0.0-0.5 Grab Soil	6124521
EB02-SA5C-102610 Grab Water	6124522
FB02-SA5C-102610 Grab Water	6124523

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

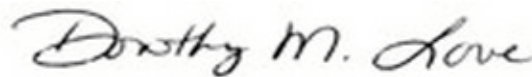
1 COPY TO
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Data Package Group
CDM Federal Services Program

Attn: Todd Burgess

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Dorothy M. Love
Group Leader



Analysis Report

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Page 1 of 4

Sample Description: SL-047-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124500
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD47 **SDG#:** DX004-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-047-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124500
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD47 SDG#: DX004-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0145 JQ	0.0122	1.07	1
11031	12378-PeCDD	40321-76-4	0.0282 JBQ	0.0209	5.36	1
11031	123478-HxCDD	39227-28-6	0.0311 JQ	0.0258	5.36	1
11031	123678-HxCDD	57653-85-7	0.107 JBQ	0.0263	5.36	1
11031	123789-HxCDD	19408-74-3	0.129 JBQ	0.0240	5.36	1
11031	1234678-HpCDD	35822-46-9	3.87 JB	0.0265	5.36	1
11031	OCDD	3268-87-9	50.9 B	0.0266	10.7	1
11031	2378-TCDF	51207-31-9	0.0195 U	0.0195	1.07	1
11031	12378-PeCDF	57117-41-6	0.0515 JBQ	0.0107	5.36	1
11031	23478-PeCDF	57117-31-4	0.0763 JBQ	0.0104	5.36	1
11031	123478-HxCDF	70648-26-9	0.0600 JBQ	0.0185	5.36	1
11031	123678-HxCDF	57117-44-9	0.0356 JB	0.0171	5.36	1
11031	123789-HxCDF	72918-21-9	0.0761 JB	0.0194	5.36	1
11031	234678-HxCDF	60851-34-5	0.0343 JBQ	0.0176	5.36	1
11031	1234678-HpCDF	67562-39-4	0.668 JB	0.0117	5.36	1
11031	1234789-HpCDF	55673-89-7	0.0539 JB	0.0167	5.36	1
11031	OCDF	39001-02-0	1.31 JB	0.0242	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-047-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124500
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD47 SDG#: DX004-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: SL-047-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124500
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD47 SDG#: DX004-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10313001	11/13/2010 09:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10313001	11/09/2010 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-045-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124501
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD45 **SDG#:** DX004-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry EPA 160.3 modified						
11625	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-045-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124501
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD45 SDG#: DX004-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0201 U	0.0201	1.08	1
11031	12378-PeCDD	40321-76-4	0.195 JBQ	0.0421	5.38	1
11031	123478-HxCDD	39227-28-6	0.136 J	0.0497	5.38	1
11031	123678-HxCDD	57653-85-7	1.37 JB	0.0503	5.38	1
11031	123789-HxCDD	19408-74-3	0.627 JB	0.0499	5.38	1
11031	1234678-HpCDD	35822-46-9	43.7 B	0.0634	5.38	1
11031	OCDD	3268-87-9	558 B	0.0948	10.8	1
11031	2378-TCDF	51207-31-9	0.0708 U	0.0708	1.08	1
11031	12378-PeCDF	57117-41-6	0.323 JBQ	0.0393	5.38	1
11031	23478-PeCDF	57117-31-4	1.10 JB	0.0366	5.38	1
11031	123478-HxCDF	70648-26-9	0.885 JB	0.0440	5.38	1
11031	123678-HxCDF	57117-44-9	0.662 JB	0.0407	5.38	1
11031	123789-HxCDF	72918-21-9	0.775 JB	0.0463	5.38	1
11031	234678-HxCDF	60851-34-5	0.664 JB	0.0416	5.38	1
11031	1234678-HpCDF	67562-39-4	6.51 B	0.0217	5.38	1
11031	1234789-HpCDF	55673-89-7	0.788 JB	0.0342	5.38	1
11031	OCDF	39001-02-0	9.68 JB	0.0326	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-045-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124501
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD45 SDG#: DX004-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: SL-045-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124501
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD45 SDG#: DX004-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10313001	11/13/2010 10:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10313001	11/09/2010 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-027-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124502
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 15:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD27 SDG#: DX004-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124502
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 15:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD27 SDG#: DX004-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0131 U	0.0131	1.10	1
11031	12378-PeCDD	40321-76-4	0.0651 JBQ	0.0234	5.49	1
11031	123478-HxCDD	39227-28-6	0.101 JQ	0.0390	5.49	1
11031	123678-HxCDD	57653-85-7	0.496 JB	0.0382	5.49	1
11031	123789-HxCDD	19408-74-3	0.278 JBQ	0.0388	5.49	1
11031	1234678-HpCDD	35822-46-9	15.5 B	0.0360	5.49	1
11031	OCDD	3268-87-9	238 B	0.0584	11.0	1
11031	2378-TCDF	51207-31-9	0.0364 U	0.0364	1.10	1
11031	12378-PeCDF	57117-41-6	0.562 JBQ	0.0246	5.49	1
11031	23478-PeCDF	57117-31-4	0.322 JBQ	0.0222	5.49	1
11031	123478-HxCDF	70648-26-9	0.245 JB	0.0273	5.49	1
11031	123678-HxCDF	57117-44-9	0.140 JB	0.0267	5.49	1
11031	123789-HxCDF	72918-21-9	0.174 JB	0.0281	5.49	1
11031	234678-HxCDF	60851-34-5	0.186 JB	0.0279	5.49	1
11031	1234678-HpCDF	67562-39-4	2.00 JB	0.0154	5.49	1
11031	1234789-HpCDF	55673-89-7	0.178 JBQ	0.0192	5.49	1
11031	OCDF	39001-02-0	5.32 JB	0.0244	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-027-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124502
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 15:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD27 SDG#: DX004-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124502
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 15:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD27 SDG#: DX004-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10313001	11/13/2010 11:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10313001	11/09/2010 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

Sample Description: SL-032-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124503
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 13:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD32 **SDG#:** DX004-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry EPA 160.3 modified						
11625	28a Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

Sample Description: SL-032-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124503
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 13:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD32 SDG#: DX004-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0417 JQ	0.0151	1.12	1
11031	12378-PeCDD	40321-76-4	0.333 JBQ	0.0327	5.58	1
11031	123478-HxCDD	39227-28-6	0.666 J	0.0358	5.58	1
11031	123678-HxCDD	57653-85-7	2.10 JB	0.0362	5.58	1
11031	123789-HxCDD	19408-74-3	1.00 JB	0.0343	5.58	1
11031	1234678-HpCDD	35822-46-9	46.4 B	0.0595	5.58	1
11031	OCDD	3268-87-9	452 B	0.0624	11.2	1
11031	2378-TCDF	51207-31-9	0.227 JBQ	0.0766	1.12	1
11031	12378-PeCDF	57117-41-6	1.22 JB	0.0381	5.58	1
11031	23478-PeCDF	57117-31-4	0.0357 U	0.0357	5.58	1
11031	123478-HxCDF	70648-26-9	0.713 JB	0.0333	5.58	1
11031	123678-HxCDF	57117-44-9	0.545 JB	0.0308	5.58	1
11031	123789-HxCDF	72918-21-9	0.278 JBQ	0.0324	5.58	1
11031	234678-HxCDF	60851-34-5	0.620 JB	0.0307	5.58	1
11031	1234678-HpCDF	67562-39-4	6.86 B	0.0222	5.58	1
11031	1234789-HpCDF	55673-89-7	0.709 JBQ	0.0306	5.58	1
11031	OCDF	39001-02-0	12.4 B	0.0258	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-032-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124503
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 13:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD32 SDG#: DX004-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 4 of 4

Sample Description: SL-032-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124503
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 13:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD32 SDG#: DX004-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10313001	11/13/2010 12:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10313001	11/09/2010 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 4

Sample Description: SL-026-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124504
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD26 SDG#: DX004-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	7.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124504
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD26 SDG#: DX004-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0157 U	0.0157	1.08	1
11031	12378-PeCDD	40321-76-4	0.122 JBQ	0.0315	5.42	1
11031	123478-HxCDD	39227-28-6	0.394 JQ	0.0392	5.42	1
11031	123678-HxCDD	57653-85-7	1.48 JB	0.0386	5.42	1
11031	123789-HxCDD	19408-74-3	0.665 JB	0.0395	5.42	1
11031	1234678-HpCDD	35822-46-9	31.4 B	0.0518	5.42	1
11031	OCDD	3268-87-9	308 B	0.0774	10.8	1
11031	2378-TCDF	51207-31-9	0.0570 U	0.0570	1.08	1
11031	12378-PeCDF	57117-41-6	0.877 JB	0.0279	5.42	1
11031	23478-PeCDF	57117-31-4	0.766 JB	0.0256	5.42	1
11031	123478-HxCDF	70648-26-9	0.268 JB	0.0302	5.42	1
11031	123678-HxCDF	57117-44-9	0.318 JB	0.0290	5.42	1
11031	123789-HxCDF	72918-21-9	0.258 JB	0.0321	5.42	1
11031	234678-HxCDF	60851-34-5	0.466 JB	0.0298	5.42	1
11031	1234678-HpCDF	67562-39-4	4.75 JB	0.0191	5.42	1
11031	1234789-HpCDF	55673-89-7	0.358 JBQ	0.0230	5.42	1
11031	OCDF	39001-02-0	7.24 JB	0.0244	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-026-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124504
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD26 SDG#: DX004-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124504
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD26 SDG#: DX004-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10313001	11/13/2010 13:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10313001	11/09/2010 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-038-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124505
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD38 SDG#: DX004-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-038-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124505
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD38 SDG#: DX004-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0183 JQ	0.0131	1.08	1
11031	12378-PeCDD	40321-76-4	0.0721 JB	0.0243	5.38	1
11031	123478-HxCDD	39227-28-6	0.124 JQ	0.0354	5.38	1
11031	123678-HxCDD	57653-85-7	0.369 JB	0.0355	5.38	1
11031	123789-HxCDD	19408-74-3	0.283 JB	0.0321	5.38	1
11031	1234678-HpCDD	35822-46-9	8.06 B	0.0323	5.38	1
11031	OCDD	3268-87-9	70.2 B	0.0470	10.8	1
11031	2378-TCDF	51207-31-9	0.0851 JB	0.0310	1.08	1
11031	12378-PeCDF	57117-41-6	0.184 JB	0.0180	5.38	1
11031	23478-PeCDF	57117-31-4	0.170 JB	0.0183	5.38	1
11031	123478-HxCDF	70648-26-9	0.154 JB	0.0219	5.38	1
11031	123678-HxCDF	57117-44-9	0.0918 JB	0.0201	5.38	1
11031	123789-HxCDF	72918-21-9	0.0657 JBQ	0.0210	5.38	1
11031	234678-HxCDF	60851-34-5	0.109 JBQ	0.0196	5.38	1
11031	1234678-HpCDF	67562-39-4	0.954 JB	0.0183	5.38	1
11031	1234789-HpCDF	55673-89-7	0.103 JBQ	0.0265	5.38	1
11031	OCDF	39001-02-0	2.07 JB	0.0298	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-038-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124505
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD38 SDG#: DX004-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 4 of 4

Sample Description: SL-038-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124505
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD38 SDG#: DX004-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10313001	11/13/2010 14:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10313001	11/09/2010 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Sample Description: EB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124506
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

DEB01 SDG#: DX004-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL *	As Received MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.808	U	0.808	1.93	1
10915	12378-PeCDD	40321-76-4	0.483	U	0.483	9.66	1
10915	123478-HxCDD	39227-28-6	0.535	U	0.535	9.66	1
10915	123678-HxCDD	57653-85-7	0.545	U	0.545	9.66	1
10915	123789-HxCDD	19408-74-3	0.542	U	0.542	9.66	1
10915	1234678-HpCDD	35822-46-9	0.998	JQ	0.737	9.66	1
10915	OCDD	3268-87-9	1.33	JBQ	0.645	19.3	1
10915	2378-TCDF	51207-31-9	0.696	U	0.696	1.93	1
10915	12378-PeCDF	57117-41-6	0.573	U	0.573	9.66	1
10915	23478-PeCDF	57117-31-4	0.517	U	0.517	9.66	1
10915	123478-HxCDF	70648-26-9	0.519	U	0.519	9.66	1
10915	123678-HxCDF	57117-44-9	0.503	U	0.503	9.66	1
10915	123789-HxCDF	72918-21-9	0.611	U	0.611	9.66	1
10915	234678-HxCDF	60851-34-5	0.517	U	0.517	9.66	1
10915	1234678-HpCDF	67562-39-4	0.526	U	0.526	9.66	1
10915	1234789-HpCDF	55673-89-7	0.645	U	0.645	9.66	1
10915	OCDF	39001-02-0	1.17	U	1.17	19.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	55	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 2 of 2

Sample Description: EB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124506
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

DEB01 SDG#: DX004-07EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL *	As Received MRL	Dilution Factor
S	Saturation of detection signal					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10308001	11/05/2010 21:47	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	10308001	11/04/2010 10:30	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Sample Description: FB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124507
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

DFB01 SDG#: DX004-08FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL *	As Received MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.121 JBQ	0.0594	1.93	1
10915	12378-PeCDD	40321-76-4	0.113 U	0.113	9.64	1
10915	123478-HxCDD	39227-28-6	0.0817 U	0.0817	9.64	1
10915	123678-HxCDD	57653-85-7	0.124 JBQ	0.0836	9.64	1
10915	123789-HxCDD	19408-74-3	0.0867 U	0.0867	9.64	1
10915	1234678-HpCDD	35822-46-9	0.595 JB	0.0850	9.64	1
10915	OCDD	3268-87-9	1.43 JBQ	0.178	19.3	1
10915	2378-TCDF	51207-31-9	0.114 JQ	0.0680	1.93	1
10915	12378-PeCDF	57117-41-6	0.120 JBQ	0.0662	9.64	1
10915	23478-PeCDF	57117-31-4	0.435 JB	0.0616	9.64	1
10915	123478-HxCDF	70648-26-9	0.208 JBQ	0.0678	9.64	1
10915	123678-HxCDF	57117-44-9	0.298 JBQ	0.0639	9.64	1
10915	123789-HxCDF	72918-21-9	0.125 JBQ	0.0692	9.64	1
10915	234678-HxCDF	60851-34-5	0.273 JB	0.0654	9.64	1
10915	1234678-HpCDF	67562-39-4	1.26 JBQ	0.0443	9.64	1
10915	1234789-HpCDF	55673-89-7	0.185 JBQ	0.0615	9.64	1
10915	OCDF	39001-02-0	0.916 JB	0.114	19.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

Sample Description: FB01-SA5C-102510 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124507
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 16:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

DFB01 SDG#: DX004-08FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305001	11/02/2010 20:02	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10305001	11/01/2010 09:30	Deborah M Zimmerman	1



Analysis Report

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Page 1 of 4

Sample Description: SL-041-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124508
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD41 SDG#: DX004-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124508
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD41 SDG#: DX004-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.261 JBQ	0.0587	5.36	1
11031	12378-PeCDD	40321-76-4	2.75 JB	0.168	26.8	1
11031	123478-HxCDD	39227-28-6	1.35 JB	0.0921	26.8	1
11031	123678-HxCDD	57653-85-7	3.73 JB	0.0968	26.8	1
11031	123789-HxCDD	19408-74-3	2.55 JB	0.0942	26.8	1
11031	1234678-HpCDD	35822-46-9	16.0 JB	0.0749	26.8	1
11031	OCDD	3268-87-9	98.9 B	0.0910	53.6	1
11031	2378-TCDF	51207-31-9	0.164 U	0.164	5.36	1
11031	12378-PeCDF	57117-41-6	1.19 JB	0.0987	26.8	1
11031	23478-PeCDF	57117-31-4	5.60 JB	0.0940	26.8	1
11031	123478-HxCDF	70648-26-9	6.20 JB	0.113	26.8	1
11031	123678-HxCDF	57117-44-9	3.38 JB	0.109	26.8	1
11031	123789-HxCDF	72918-21-9	3.27 JBQ	0.129	26.8	1
11031	234678-HxCDF	60851-34-5	3.39 JB	0.114	26.8	1
11031	1234678-HpCDF	67562-39-4	6.18 JB	0.0387	26.8	1
11031	1234789-HpCDF	55673-89-7	1.49 JBQ	0.0510	26.8	1
11031	OCDF	39001-02-0	4.93 JB	0.0438	53.6	1

The analysis for dioxin/furans was reported from an extraction of the sample that was outside of a client specified extraction holding time.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	70	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-041-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124508
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD41 SDG#: DX004-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-041-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124508
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD41 SDG#: DX004-09BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10340002	12/15/2010 21:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	10340002	12/06/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-041-SA5C-SS-0.0-0.5 MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124509
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD41 SDG#: DX004-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry EPA 160.3 modified						
11625	28a Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA5C-SS-0.0-0.5 MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124509
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD41 SDG#: DX004-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.7	0.0942	1.07	1
11031	12378-PeCDD	40321-76-4	123 B	0.158	5.36	1
11031	123478-HxCDD	39227-28-6	121	0.0853	5.36	1
11031	123678-HxCDD	57653-85-7	123 B	0.0868	5.36	1
11031	123789-HxCDD	19408-74-3	121 B	0.0854	5.36	1
11031	1234678-HpCDD	35822-46-9	139 B	0.0613	5.36	1
11031	OCDD	3268-87-9	346 B	0.0609	10.7	1
11031	2378-TCDF	51207-31-9	23.1	0.193	1.07	1
11031	12378-PeCDF	57117-41-6	119 B	0.0817	5.36	1
11031	23478-PeCDF	57117-31-4	128 B	0.0763	5.36	1
11031	123478-HxCDF	70648-26-9	128 B	0.0825	5.36	1
11031	123678-HxCDF	57117-44-9	120 B	0.0786	5.36	1
11031	123789-HxCDF	72918-21-9	123 B	0.0881	5.36	1
11031	234678-HxCDF	60851-34-5	121 B	0.0835	5.36	1
11031	1234678-HpCDF	67562-39-4	122 B	0.0508	5.36	1
11031	1234789-HpCDF	55673-89-7	120 B	0.0661	5.36	1
11031	OCDF	39001-02-0	236 B	0.0484	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-041-SA5C-SS-0.0-0.5 MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124509
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD41 SDG#: DX004-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-041-SA5C-SS-0.0-0.5 MS Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124509
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 10/27/2010 09:00

Suite 210

Reported: 01/26/2011 14:19

Chantilly VA 20151

SLD41 SDG#: DX004-09MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10313001	11/13/2010 19:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10313001	11/09/2010 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-041-SA5C-SS-0.0-0.5 MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124510
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD41 SDG#: DX004-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry EPA 160.3 modified						
11625	28a Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA5C-SS-0.0-0.5 MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124510
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD41 SDG#: DX004-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.1	0.0385	1.07	1
11031	12378-PeCDD	40321-76-4	117 B	0.0851	5.36	1
11031	123478-HxCDD	39227-28-6	118	0.0502	5.36	1
11031	123678-HxCDD	57653-85-7	117 B	0.0518	5.36	1
11031	123789-HxCDD	19408-74-3	119 B	0.0499	5.36	1
11031	1234678-HpCDD	35822-46-9	127 B	0.0410	5.36	1
11031	OCDD	3268-87-9	312 B	0.0426	10.7	1
11031	2378-TCDF	51207-31-9	24.5 B	0.119	1.07	1
11031	12378-PeCDF	57117-41-6	117 B	0.0444	5.36	1
11031	23478-PeCDF	57117-31-4	119 B	0.0412	5.36	1
11031	123478-HxCDF	70648-26-9	119 B	0.0714	5.36	1
11031	123678-HxCDF	57117-44-9	115 B	0.0672	5.36	1
11031	123789-HxCDF	72918-21-9	118 B	0.0740	5.36	1
11031	234678-HxCDF	60851-34-5	115 B	0.0671	5.36	1
11031	1234678-HpCDF	67562-39-4	118 B	0.0345	5.36	1
11031	1234789-HpCDF	55673-89-7	119 B	0.0465	5.36	1
11031	OCDF	39001-02-0	237 B	0.0383	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-041-SA5C-SS-0.0-0.5 MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124510
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD41 SDG#: DX004-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-041-SA5C-SS-0.0-0.5 MSD Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5C-SS-0.0-0.5

LLI Sample # SW 6124510
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 09:50

CDM Federal Programs Corp.

Submitted: 10/27/2010 09:00

14420 Albemarle Point Place

Reported: 01/26/2011 14:19

Suite 210

Chantilly VA 20151

SLD41 SDG#: DX004-09MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10313001	11/13/2010 20:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10313001	11/09/2010 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-043-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124511
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD43 SDG#: DX004-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-043-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124511
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD43 SDG#: DX004-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.190	J	0.0202	1
11031	12378-PeCDD	40321-76-4	1.87	JB	0.0620	1
11031	123478-HxCDD	39227-28-6	4.88	J	0.0595	1
11031	123678-HxCDD	57653-85-7	13.0	B	0.0589	1
11031	123789-HxCDD	19408-74-3	8.01	B	0.0569	1
11031	1234678-HpCDD	35822-46-9	333	B	0.111	1
11031	OCDD	3268-87-9	2,730	B	0.132	1
11031	2378-TCDF	51207-31-9	0.800	JB	0.0903	1
11031	12378-PeCDF	57117-41-6	2.48	JB	0.0489	1
11031	23478-PeCDF	57117-31-4	1.57	JB	0.0471	1
11031	123478-HxCDF	70648-26-9	3.27	JB	0.0442	1
11031	123678-HxCDF	57117-44-9	1.56	JB	0.0431	1
11031	123789-HxCDF	72918-21-9	0.733	JB	0.0467	1
11031	234678-HxCDF	60851-34-5	2.15	JB	0.0424	1
11031	1234678-HpCDF	67562-39-4	40.5	B	0.0553	1
11031	1234789-HpCDF	55673-89-7	2.73	JB	0.0683	1
11031	OCDF	39001-02-0	112	B	0.0344	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-043-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124511
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD43 SDG#: DX004-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 4 of 4

Sample Description: SL-043-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124511
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD43 SDG#: DX004-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10313001	11/13/2010 21:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10313001	11/09/2010 15:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 4

Sample Description: DUP03-SA5C-QC-102510 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124512
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SDUP3 SDG#: DX004-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP03-SA5C-QC-102510 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124512
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SDUP3 SDG#: DX004-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0885 JB	0.0328	1.08	1
11031	12378-PeCDD	40321-76-4	1.95 J	0.0687	5.38	1
11031	123478-HxCDD	39227-28-6	0.970 JB	0.0357	5.38	1
11031	123678-HxCDD	57653-85-7	2.90 J	0.0368	5.38	1
11031	123789-HxCDD	19408-74-3	2.11 JB	0.0358	5.38	1
11031	1234678-HpCDD	35822-46-9	13.9 B	0.0354	5.38	1
11031	OCDD	3268-87-9	89.7 B	0.0295	10.8	1
11031	2378-TCDF	51207-31-9	0.0826 U	0.0826	1.08	1
11031	12378-PeCDF	57117-41-6	1.20 JB	0.0427	5.38	1
11031	23478-PeCDF	57117-31-4	4.14 JB	0.0407	5.38	1
11031	123478-HxCDF	70648-26-9	4.80 JB	0.0418	5.38	1
11031	123678-HxCDF	57117-44-9	2.98 JB	0.0381	5.38	1
11031	123789-HxCDF	72918-21-9	2.25 JB	0.0437	5.38	1
11031	234678-HxCDF	60851-34-5	2.08 JBQ	0.0394	5.38	1
11031	1234678-HpCDF	67562-39-4	3.43 JB	0.0172	5.38	1
11031	1234789-HpCDF	55673-89-7	0.896 JB	0.0238	5.38	1
11031	OCDF	39001-02-0	3.86 JB	0.0181	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: DUP03-SA5C-QC-102510 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124512
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SDUP3 SDG#: DX004-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: DUP03-SA5C-QC-102510 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124512
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2010 10:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SDUP3 SDG#: DX004-11FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10315001	11/14/2010 06:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10315001	11/11/2010 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-008-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124513
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD08 SDG#: DX004-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124513
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD08 SDG#: DX004-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0130 U	0.0130	1.18	1
11031	12378-PeCDD	40321-76-4	0.0244 JQ	0.0166	5.90	1
11031	123478-HxCDD	39227-28-6	0.0209 U	0.0209	5.90	1
11031	123678-HxCDD	57653-85-7	0.130 J	0.0213	5.90	1
11031	123789-HxCDD	19408-74-3	0.123 JB	0.0215	5.90	1
11031	1234678-HpCDD	35822-46-9	1.89 JB	0.0252	5.90	1
11031	OCDD	3268-87-9	18.8 B	0.0242	11.8	1
11031	2378-TCDF	51207-31-9	0.0179 U	0.0179	1.18	1
11031	12378-PeCDF	57117-41-6	0.0806 JB	0.0112	5.90	1
11031	23478-PeCDF	57117-31-4	0.0849 JBQ	0.0105	5.90	1
11031	123478-HxCDF	70648-26-9	0.0284 JB	0.0152	5.90	1
11031	123678-HxCDF	57117-44-9	0.0318 JBQ	0.0140	5.90	1
11031	123789-HxCDF	72918-21-9	0.125 JBQ	0.0165	5.90	1
11031	234678-HxCDF	60851-34-5	0.0407 JB	0.0151	5.90	1
11031	1234678-HpCDF	67562-39-4	0.368 JB	0.0123	5.90	1
11031	1234789-HpCDF	55673-89-7	0.0408 JB	0.0177	5.90	1
11031	OCDF	39001-02-0	0.553 JB	0.0231	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

Sample Description: SL-008-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124513
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD08 SDG#: DX004-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					



Analysis Report

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Page 4 of 4

Sample Description: SL-008-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124513
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD08 SDG#: DX004-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10315001	11/14/2010 07:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10315001	11/11/2010 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 4

Sample Description: SL-020-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124514
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD20 SDG#: DX004-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124514
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD20 SDG#: DX004-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0165 JB	0.00699	1.09	1
11031	12378-PeCDD	40321-76-4	0.0659 JBQ	0.0106	5.46	1
11031	123478-HxCDD	39227-28-6	0.0615 JBQ	0.0148	5.46	1
11031	123678-HxCDD	57653-85-7	0.265 JB	0.0148	5.46	1
11031	123789-HxCDD	19408-74-3	0.206 JB	0.0144	5.46	1
11031	1234678-HpCDD	35822-46-9	6.57 B	0.0144	5.46	1
11031	OCDD	3268-87-9	65.6 B	0.0202	10.9	1
11031	2378-TCDF	51207-31-9	0.0329 JBQ	0.0129	1.09	1
11031	12378-PeCDF	57117-41-6	0.0923 JB	0.0105	5.46	1
11031	23478-PeCDF	57117-31-4	0.201 JB	0.00917	5.46	1
11031	123478-HxCDF	70648-26-9	0.148 JB	0.0140	5.46	1
11031	123678-HxCDF	57117-44-9	0.122 JB	0.0132	5.46	1
11031	123789-HxCDF	72918-21-9	0.193 JB	0.0146	5.46	1
11031	234678-HxCDF	60851-34-5	0.228 JB	0.0133	5.46	1
11031	1234678-HpCDF	67562-39-4	1.18 JB	0.00983	5.46	1
11031	1234789-HpCDF	55673-89-7	0.127 JB	0.0114	5.46	1
11031	OCDF	39001-02-0	1.86 JB	0.00786	10.9	1

The analysis for dioxin/furans was reported from an extraction of the sample that was outside of a client specified extraction holding time.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration



Analysis Report

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Page 3 of 4

Sample Description: SL-020-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124514
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD20 SDG#: DX004-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124514
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD20 SDG#: DX004-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10340002	12/15/2010 22:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	10340002	12/06/2010 13:00	Ginelle L Haines	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

Sample Description: SL-018-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124515
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD18 SDG#: DX004-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

Sample Description: SL-018-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124515
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD18 SDG#: DX004-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0108 U	0.0108	1.16	1
11031	12378-PeCDD	40321-76-4	0.0191 U	0.0191	5.79	1
11031	123478-HxCDD	39227-28-6	0.0268 JBQ	0.0223	5.79	1
11031	123678-HxCDD	57653-85-7	0.142 JQ	0.0221	5.79	1
11031	123789-HxCDD	19408-74-3	0.285 JBQ	0.0221	5.79	1
11031	1234678-HpCDD	35822-46-9	1.43 JB	0.0263	5.79	1
11031	OCDD	3268-87-9	17.0 B	0.0211	11.6	1
11031	2378-TCDF	51207-31-9	0.0212 JQ	0.0208	1.16	1
11031	12378-PeCDF	57117-41-6	0.0550 JB	0.0110	5.79	1
11031	23478-PeCDF	57117-31-4	0.0398 JBQ	0.0103	5.79	1
11031	123478-HxCDF	70648-26-9	0.0369 JBQ	0.0153	5.79	1
11031	123678-HxCDF	57117-44-9	0.0365 JBQ	0.0138	5.79	1
11031	123789-HxCDF	72918-21-9	0.160 JB	0.0144	5.79	1
11031	234678-HxCDF	60851-34-5	0.0188 JBQ	0.0146	5.79	1
11031	1234678-HpCDF	67562-39-4	0.267 JBQ	0.0128	5.79	1
11031	1234789-HpCDF	55673-89-7	0.0273 JBQ	0.0175	5.79	1
11031	OCDF	39001-02-0	0.610 JB	0.0194	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 3 of 4

Sample Description: SL-018-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124515
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD18 SDG#: DX004-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124515
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 09:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD18 SDG#: DX004-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10315001	11/14/2010 09:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10315001	11/11/2010 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 4

Sample Description: SL-012-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124516
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD12 SDG#: DX004-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124516
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD12 SDG#: DX004-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0133 JB	0.0119	1.15	1
11031	12378-PeCDD	40321-76-4	0.0791 JQ	0.0195	5.74	1
11031	123478-HxCDD	39227-28-6	0.0249 U	0.0249	5.74	1
11031	123678-HxCDD	57653-85-7	0.127 JQ	0.0241	5.74	1
11031	123789-HxCDD	19408-74-3	0.191 JB	0.0242	5.74	1
11031	1234678-HpCDD	35822-46-9	2.18 JB	0.0224	5.74	1
11031	OCDD	3268-87-9	23.9 B	0.0177	11.5	1
11031	2378-TCDF	51207-31-9	0.0351 J	0.0189	1.15	1
11031	12378-PeCDF	57117-41-6	0.0823 JB	0.0108	5.74	1
11031	23478-PeCDF	57117-31-4	0.0525 JB	0.0101	5.74	1
11031	123478-HxCDF	70648-26-9	0.0635 JB	0.0155	5.74	1
11031	123678-HxCDF	57117-44-9	0.0561 JBQ	0.0144	5.74	1
11031	123789-HxCDF	72918-21-9	0.149 JBQ	0.0161	5.74	1
11031	234678-HxCDF	60851-34-5	0.0529 JBQ	0.0155	5.74	1
11031	1234678-HpCDF	67562-39-4	0.448 JBQ	0.0113	5.74	1
11031	1234789-HpCDF	55673-89-7	0.0592 JBQ	0.0166	5.74	1
11031	OCDF	39001-02-0	1.09 JB	0.0179	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-012-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124516
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD12 SDG#: DX004-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124516
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 10:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD12 SDG#: DX004-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10315001	11/14/2010 10:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10315001	11/11/2010 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-024-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124517
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD24 SDG#: DX004-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124517
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD24 SDG#: DX004-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0677 JBQ	0.0278	1.10	1
11031	12378-PeCDD	40321-76-4	0.907 JQ	0.0753	5.49	1
11031	123478-HxCDD	39227-28-6	1.10 JB	0.127	5.49	1
11031	123678-HxCDD	57653-85-7	4.21 J	0.127	5.49	1
11031	123789-HxCDD	19408-74-3	2.02 JB	0.0884	5.49	1
11031	1234678-HpCDD	35822-46-9	86.2 B	0.143	5.49	1
11031	OCDD	3268-87-9	876 B	0.250	11.0	1
11031	2378-TCDF	51207-31-9	0.157 J	0.0791	1.10	1
11031	12378-PeCDF	57117-41-6	0.710 JBQ	0.0641	5.49	1
11031	23478-PeCDF	57117-31-4	1.17 JBQ	0.0681	5.49	1
11031	123478-HxCDF	70648-26-9	0.923 JB	0.114	5.49	1
11031	123678-HxCDF	57117-44-9	0.812 JB	0.101	5.49	1
11031	123789-HxCDF	72918-21-9	0.350 JBQ	0.0722	5.49	1
11031	234678-HxCDF	60851-34-5	1.16 JBQ	0.0774	5.49	1
11031	1234678-HpCDF	67562-39-4	11.2 B	0.113	5.49	1
11031	1234789-HpCDF	55673-89-7	1.22 JB	0.0985	5.49	1
11031	OCDF	39001-02-0	28.4 B	0.0702	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	49	25 - 181
13C12-123478-HxCDD	40	32 - 141
13C12-123678-HxCDD	39	28 - 130
13C12-123789-HxCDD	55	28 - 130
13C12-1234678-HpCDD	49	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	52	24 - 185
13C12-23478-PeCDF	46	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	37	26 - 123
13C12-234678-HxCDF	48	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	38	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	45	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-024-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124517
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD24 SDG#: DX004-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124517
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 08:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD24 SDG#: DX004-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10315001	11/14/2010 11:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10315001	11/11/2010 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-004-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124518
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD04 SDG#: DX004-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124518
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD04 SDG#: DX004-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0119 U	0.0119	1.12	1
11031	12378-PeCDD	40321-76-4	0.125 JQ	0.0220	5.62	1
11031	123478-HxCDD	39227-28-6	0.0751 JB	0.0328	5.62	1
11031	123678-HxCDD	57653-85-7	0.531 JQ	0.0342	5.62	1
11031	123789-HxCDD	19408-74-3	0.367 JBQ	0.0348	5.62	1
11031	1234678-HpCDD	35822-46-9	19.3 B	0.0348	5.62	1
11031	OCDD	3268-87-9	223 B	0.0502	11.2	1
11031	2378-TCDF	51207-31-9	0.0435 JQ	0.0192	1.12	1
11031	12378-PeCDF	57117-41-6	0.0829 JBQ	0.0102	5.62	1
11031	23478-PeCDF	57117-31-4	0.0796 JB	0.00966	5.62	1
11031	123478-HxCDF	70648-26-9	0.123 JBQ	0.0212	5.62	1
11031	123678-HxCDF	57117-44-9	0.0813 JBQ	0.0194	5.62	1
11031	123789-HxCDF	72918-21-9	0.219 JBQ	0.0242	5.62	1
11031	234678-HxCDF	60851-34-5	0.107 JBQ	0.0206	5.62	1
11031	1234678-HpCDF	67562-39-4	1.83 JB	0.0165	5.62	1
11031	1234789-HpCDF	55673-89-7	0.191 JBQ	0.0227	5.62	1
11031	OCDF	39001-02-0	5.54 JB	0.0244	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-004-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124518
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD04 SDG#: DX004-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124518
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD04 SDG#: DX004-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10315001	11/14/2010 15:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10315001	11/11/2010 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

Sample Description: SL-001-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124519
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD01 SDG#: DX004-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

Sample Description: SL-001-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124519
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD01 SDG#: DX004-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0281 JBQ	0.0122	1.09	1
11031	12378-PeCDD	40321-76-4	0.148 J	0.0227	5.45	1
11031	123478-HxCDD	39227-28-6	0.213 JBQ	0.0306	5.45	1
11031	123678-HxCDD	57653-85-7	0.571 J	0.0306	5.45	1
11031	123789-HxCDD	19408-74-3	0.483 JBQ	0.0316	5.45	1
11031	1234678-HpCDD	35822-46-9	18.7 B	0.0318	5.45	1
11031	OCDD	3268-87-9	216 B	0.0464	10.9	1
11031	2378-TCDF	51207-31-9	0.0201 JQ	0.0179	1.09	1
11031	12378-PeCDF	57117-41-6	0.0769 JB	0.0119	5.45	1
11031	23478-PeCDF	57117-31-4	0.0913 JB	0.0108	5.45	1
11031	123478-HxCDF	70648-26-9	0.0785 JBQ	0.0192	5.45	1
11031	123678-HxCDF	57117-44-9	0.0936 JBQ	0.0175	5.45	1
11031	123789-HxCDF	72918-21-9	0.0822 JBQ	0.0220	5.45	1
11031	234678-HxCDF	60851-34-5	0.128 JB	0.0190	5.45	1
11031	1234678-HpCDF	67562-39-4	1.93 JB	0.0153	5.45	1
11031	1234789-HpCDF	55673-89-7	0.173 JBQ	0.0212	5.45	1
11031	OCDF	39001-02-0	5.67 JB	0.0197	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-001-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124519
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD01 SDG#: DX004-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124519
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD01 SDG#: DX004-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10315001	11/14/2010 16:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10315001	11/11/2010 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

Sample Description: SL-002-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124520
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD02 SDG#: DX004-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

Sample Description: SL-002-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124520
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD02 SDG#: DX004-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0192 JBQ	0.0128	1.14	1
11031	12378-PeCDD	40321-76-4	0.107 JQ	0.0288	5.68	1
11031	123478-HxCDD	39227-28-6	0.0680 JBQ	0.0294	5.68	1
11031	123678-HxCDD	57653-85-7	0.316 J	0.0295	5.68	1
11031	123789-HxCDD	19408-74-3	0.281 JBQ	0.0283	5.68	1
11031	1234678-HpCDD	35822-46-9	9.20 B	0.0313	5.68	1
11031	OCDD	3268-87-9	98.0 B	0.0396	11.4	1
11031	2378-TCDF	51207-31-9	0.0368 JQ	0.0200	1.14	1
11031	12378-PeCDF	57117-41-6	0.0940 JBQ	0.0126	5.68	1
11031	23478-PeCDF	57117-31-4	0.0717 JB	0.0115	5.68	1
11031	123478-HxCDF	70648-26-9	0.0921 JBQ	0.0191	5.68	1
11031	123678-HxCDF	57117-44-9	0.0576 JB	0.0170	5.68	1
11031	123789-HxCDF	72918-21-9	0.152 JB	0.0203	5.68	1
11031	234678-HxCDF	60851-34-5	0.0747 JBQ	0.0185	5.68	1
11031	1234678-HpCDF	67562-39-4	1.12 JB	0.0157	5.68	1
11031	1234789-HpCDF	55673-89-7	0.108 JBQ	0.0226	5.68	1
11031	OCDF	39001-02-0	2.96 JB	0.0279	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-002-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124520
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD02 SDG#: DX004-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 4 of 4

Sample Description: SL-002-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124520
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD02 SDG#: DX004-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10315001	11/14/2010 17:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10315001	11/11/2010 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 4

Sample Description: SL-033-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124521
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD33 SDG#: DX004-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-033-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124521
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD33 SDG#: DX004-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0204 JBQ	0.0161	1.07	1
11031	12378-PeCDD	40321-76-4	0.133 JQ	0.0217	5.37	1
11031	123478-HxCDD	39227-28-6	0.182 JB	0.0436	5.37	1
11031	123678-HxCDD	57653-85-7	0.760 J	0.0437	5.37	1
11031	123789-HxCDD	19408-74-3	0.557 JBQ	0.0439	5.37	1
11031	1234678-HpCDD	35822-46-9	21.5 B	0.0388	5.37	1
11031	OCDD	3268-87-9	216 B	0.0432	10.7	1
11031	2378-TCDF	51207-31-9	0.0476 JQ	0.0276	1.07	1
11031	12378-PeCDF	57117-41-6	0.188 JB	0.0154	5.37	1
11031	23478-PeCDF	57117-31-4	0.161 JB	0.0141	5.37	1
11031	123478-HxCDF	70648-26-9	0.159 JBQ	0.0258	5.37	1
11031	123678-HxCDF	57117-44-9	0.330 JBQ	0.0235	5.37	1
11031	123789-HxCDF	72918-21-9	0.0823 JB	0.0291	5.37	1
11031	234678-HxCDF	60851-34-5	0.158 JBQ	0.0255	5.37	1
11031	1234678-HpCDF	67562-39-4	2.36 JB	0.0180	5.37	1
11031	1234789-HpCDF	55673-89-7	0.234 JB	0.0243	5.37	1
11031	OCDF	39001-02-0	4.85 JB	0.0243	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

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Page 3 of 4

Sample Description: SL-033-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124521
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD33 SDG#: DX004-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL *	Dry MRL	Dilution Factor
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 4 of 4

Sample Description: SL-033-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling

LLI Sample # SW 6124521
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 13:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SLD33 SDG#: DX004-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10315001	11/14/2010 18:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10315001	11/11/2010 12:30	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10309162401B	11/05/2010 09:47	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Sample Description: EB02-SA5C-102610 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124522
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 15:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SEB02 SDG#: DX004-21EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL *	As Received MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.0987 U	0.0987	1.95	1
10915	12378-PeCDD	40321-76-4	0.362 JBQ	0.186	9.76	1
10915	123478-HxCDD	39227-28-6	0.103 U	0.103	9.76	1
10915	123678-HxCDD	57653-85-7	0.119 JBQ	0.103	9.76	1
10915	123789-HxCDD	19408-74-3	0.126 JBQ	0.106	9.76	1
10915	1234678-HpCDD	35822-46-9	0.726 JBQ	0.0988	9.76	1
10915	OCDD	3268-87-9	1.49 JBQ	0.205	19.5	1
10915	2378-TCDF	51207-31-9	0.105 U	0.105	1.95	1
10915	12378-PeCDF	57117-41-6	0.170 JBQ	0.0965	9.76	1
10915	23478-PeCDF	57117-31-4	0.596 JB	0.0885	9.76	1
10915	123478-HxCDF	70648-26-9	0.357 JBQ	0.0758	9.76	1
10915	123678-HxCDF	57117-44-9	0.352 JB	0.0730	9.76	1
10915	123789-HxCDF	72918-21-9	0.148 JBQ	0.0779	9.76	1
10915	234678-HxCDF	60851-34-5	0.360 JBQ	0.0733	9.76	1
10915	1234678-HpCDF	67562-39-4	1.31 JBQ	0.0591	9.76	1
10915	1234789-HpCDF	55673-89-7	0.267 JBQ	0.0807	9.76	1
10915	OCDF	39001-02-0	0.922 JBQ	0.134	19.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	55	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	58	28 - 130
13C12-123789-HxCDD	60	28 - 130
13C12-1234678-HpCDD	60	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	53	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	64	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

Sample Description: EB02-SA5C-102610 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124522
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 15:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SEB02 SDG#: DX004-21EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL *	As Received MRL	Dilution Factor
S	Saturation of detection signal					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305001	11/02/2010 21:02	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10305001	11/01/2010 09:30	Deborah M Zimmerman	1

Sample Description: FB02-SA5C-102610 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124523
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SFB02 SDG#: DX004-22FB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL *	As Received MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.0868 U	0.0868	1.96	1
10915	12378-PeCDD	40321-76-4	0.224 JBQ	0.185	9.81	1
10915	123478-HxCDD	39227-28-6	0.106 U	0.106	9.81	1
10915	123678-HxCDD	57653-85-7	0.106 U	0.106	9.81	1
10915	123789-HxCDD	19408-74-3	0.111 U	0.111	9.81	1
10915	1234678-HpCDD	35822-46-9	0.853 JBQ	0.110	9.81	1
10915	OCDD	3268-87-9	1.33 JBQ	0.247	19.6	1
10915	2378-TCDF	51207-31-9	0.0844 U	0.0844	1.96	1
10915	12378-PeCDF	57117-41-6	0.250 JBQ	0.0904	9.81	1
10915	23478-PeCDF	57117-31-4	0.613 JBQ	0.0841	9.81	1
10915	123478-HxCDF	70648-26-9	0.340 JB	0.0898	9.81	1
10915	123678-HxCDF	57117-44-9	0.275 JBQ	0.0864	9.81	1
10915	123789-HxCDF	72918-21-9	0.215 JBQ	0.0986	9.81	1
10915	234678-HxCDF	60851-34-5	0.390 JBQ	0.0894	9.81	1
10915	1234678-HpCDF	67562-39-4	1.44 JB	0.0528	9.81	1
10915	1234789-HpCDF	55673-89-7	0.164 JBQ	0.0703	9.81	1
10915	OCDF	39001-02-0	0.802 JB	0.158	19.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	59	28 - 130
13C12-123789-HxCDD	60	28 - 130
13C12-1234678-HpCDD	60	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 2 of 2

Sample Description: FB02-SA5C-102610 Grab Water
SSFL Area IV Collocated Soil Sampling

LLI Sample # WW 6124523
LLI Group # 1218363
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2010 14:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/27/2010 09:00

Reported: 01/26/2011 14:19

SFB02 SDG#: DX004-22FB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305001	11/02/2010 22:01	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10305001	11/01/2010 09:30	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/26/11 at 02:19 PM

Group Number: 1218363

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10309162401B 28a Moisture Content by 160.3	Sample number(s): 6124500-6124505, 6124508-6124521				100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10305001	Sample number(s): 6124507, 6124522-6124523								
2378-TCDD	0.104 J	0.0811	2.00	pg/l	109		67-158		
12378-PeCDD	1.86 J	0.180	10.0	pg/l	110		70-142		
123478-HxCDD	2.02 J	0.165	10.0	pg/l	113		70-164		
123678-HxCDD	2.44 J	0.157	10.0	pg/l	110		76-134		
123789-HxCDD	2.77 J	0.162	10.0	pg/l	111		64-162		
1234678-HpCDD	2.59 J	0.155	10.0	pg/l	108		70-140		
OCDD	3.51 J	0.213	20.0	pg/l	107		78-144		
2378-TCDF	0.0905 U	0.0905	2.00	pg/l	112		75-158		
12378-PeCDF	1.74 J	0.0884	10.0	pg/l	113		80-134		
23478-PeCDF	1.92 J	0.0829	10.0	pg/l	112		68-160		
123478-HxCDF	2.90 J	0.130	10.0	pg/l	111		72-134		
123678-HxCDF	2.55 J	0.126	10.0	pg/l	108		84-130		
123789-HxCDF	3.13 J	0.130	10.0	pg/l	110		78-130		
234678-HxCDF	2.50 J	0.127	10.0	pg/l	111		70-156		
1234678-HpCDF	3.59 J	0.119	10.0	pg/l	109		82-122		
1234789-HpCDF	2.41 J	0.158	10.0	pg/l	109		78-138		
OCDF	3.49 J	0.175	20.0	pg/l	106		63-170		

Batch number: 10308001	Sample number(s): 6124506								
2378-TCDD	0.741 U	0.741	2.00	pg/l	104		67-158		
12378-PeCDD	0.685 J	0.631	10.0	pg/l	108		70-142		
123478-HxCDD	0.534 J	0.517	10.0	pg/l	99		70-164		
123678-HxCDD	0.547 U	0.547	10.0	pg/l	102		76-134		
123789-HxCDD	0.554 U	0.554	10.0	pg/l	101		64-162		
1234678-HpCDD	0.717 U	0.717	10.0	pg/l	96		70-140		
OCDD	2.14 J	0.872	20.0	pg/l	103		78-144		
2378-TCDF	0.638 U	0.638	2.00	pg/l	95		75-158		
12378-PeCDF	0.620 U	0.620	10.0	pg/l	96		80-134		
23478-PeCDF	0.604 U	0.604	10.0	pg/l	95		68-160		
123478-HxCDF	0.530 U	0.530	10.0	pg/l	105		72-134		
123678-HxCDF	0.530 U	0.530	10.0	pg/l	105		84-130		
123789-HxCDF	0.616 U	0.616	10.0	pg/l	108		78-130		
234678-HxCDF	0.486 U	0.486	10.0	pg/l	104		70-156		
1234678-HpCDF	0.530 U	0.530	10.0	pg/l	107		82-122		
1234789-HpCDF	0.699 U	0.699	10.0	pg/l	104		78-138		
OCDF	1.31 U	1.31	20.0	pg/l	104		63-170		

Batch number: 10313001	Sample number(s): 6124500-6124505, 6124509-6124511								
2378-TCDD	0.00910 U	0.00910	1.00	ng/kg	106		67-158		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/26/11 at 02:19 PM

Group Number: 1218363

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
12378-PeCDD	0.0268 J	0.0159	5.00	ng/kg	107		70-142		
123478-HxCDD	0.0118 U	0.0118	5.00	ng/kg	108		70-164		
123678-HxCDD	0.0194 J	0.0125	5.00	ng/kg	107		76-134		
123789-HxCDD	0.0250 J	0.0118	5.00	ng/kg	107		64-162		
1234678-HpCDD	0.110 J	0.0150	5.00	ng/kg	108		70-140		
OCDD	0.222 J	0.0145	10.0	ng/kg	107		78-144		
2378-TCDF	0.0234 J	0.0123	1.00	ng/kg	111		75-158		
12378-PeCDF	0.0272 J	0.00870	5.00	ng/kg	108		80-134		
23478-PeCDF	0.0608 J	0.00830	5.00	ng/kg	106		68-160		
123478-HxCDF	0.0231 J	0.00820	5.00	ng/kg	109		72-134		
123678-HxCDF	0.0252 J	0.00730	5.00	ng/kg	107		84-130		
123789-HxCDF	0.0475 J	0.00840	5.00	ng/kg	109		78-130		
234678-HxCDF	0.0273 J	0.00780	5.00	ng/kg	106		70-156		
1234678-HpCDF	0.0431 J	0.00430	5.00	ng/kg	108		82-122		
1234789-HpCDF	0.0703 J	0.00700	5.00	ng/kg	111		78-138		
OCDF	0.159 J	0.0176	10.0	ng/kg	108		63-170		

Batch number: 10315001

Sample number(s): 6124512-6124513, 6124515-6124521

2378-TCDD	0.0235 J	0.0111	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0145 U	0.0145	5.00	ng/kg	107		70-142		
123478-HxCDD	0.0256 J	0.0133	5.00	ng/kg	108		70-164		
123678-HxCDD	0.0137 U	0.0137	5.00	ng/kg	106		76-134		
123789-HxCDD	0.0140 J	0.0133	5.00	ng/kg	109		64-162		
1234678-HpCDD	0.0838 J	0.0162	5.00	ng/kg	105		70-140		
OCDD	0.218 J	0.0188	10.0	ng/kg	109		78-144		
2378-TCDF	0.0108 U	0.0108	1.00	ng/kg	106		75-158		
12378-PeCDF	0.0365 J	0.00800	5.00	ng/kg	109		80-134		
23478-PeCDF	0.0439 J	0.00760	5.00	ng/kg	107		68-160		
123478-HxCDF	0.0187 J	0.00870	5.00	ng/kg	105		72-134		
123678-HxCDF	0.0252 J	0.00810	5.00	ng/kg	106		84-130		
123789-HxCDF	0.0455 J	0.00900	5.00	ng/kg	108		78-130		
234678-HxCDF	0.0191 J	0.00810	5.00	ng/kg	106		70-156		
1234678-HpCDF	0.0769 J	0.00620	5.00	ng/kg	108		82-122		
1234789-HpCDF	0.0515 J	0.00850	5.00	ng/kg	110		78-138		
OCDF	0.110 J	0.0189	10.0	ng/kg	111		63-170		

Batch number: 10340002

Sample number(s): 6124508, 6124514

2378-TCDD	0.00867 J	0.00580	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0365 J	0.00860	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0217 J	0.00840	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0254 J	0.00860	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0228 J	0.00860	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.167 J	0.0108	5.00	ng/kg	103		70-140		
OCDD	0.285 J	0.0115	10.0	ng/kg	103		78-144		
2378-TCDF	0.0155 J	0.00700	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0423 J	0.00570	5.00	ng/kg	102		80-134		
23478-PeCDF	0.110 J	0.00530	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0938 J	0.0104	5.00	ng/kg	102		72-134		
123678-HxCDF	0.0743 J	0.00990	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0541 J	0.0115	5.00	ng/kg	100		78-130		
234678-HxCDF	0.124 J	0.0104	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.453 J	0.00690	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.0638 J	0.00880	5.00	ng/kg	103		78-138		
OCDF	0.272 J	0.00990	10.0	ng/kg	102		63-170		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/26/11 at 02:19 PM

Group Number: 1218363

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10309162401B 28a Moisture Content by 160.3	Sample number(s): 6124500-6124505, 6124508-6124521					BKG: P124079 6.8	7.4	9	20
Batch number: 10313001	Sample number(s): 6124500-6124505, 6124509-6124511					UNSPK: P124508			
2378-TCDD	105	102	67-158	3	25				
12378-PeCDD	114	109	70-142	5	25				
123478-HxCDD	112	110	70-164	2	25				
123678-HxCDD	112	106	76-134	5	25				
123789-HxCDD	111	109	64-162	1	25				
1234678-HpCDD	118	107	70-140	9	25				
OCDD	123	108	78-144	10	25				
2378-TCDF	103	110	75-158	6	25				
12378-PeCDF	110	109	80-134	1	25				
23478-PeCDF	119	111	68-160	7	25				
123478-HxCDF	115	107	72-134	8	25				
123678-HxCDF	110	106	84-130	4	25				
123789-HxCDF	113	108	78-130	4	25				
234678-HxCDF	111	105	70-156	5	25				
1234678-HpCDF	111	107	82-122	4	25				
1234789-HpCDF	111	110	78-138	1	25				
OCDF	108	108	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 10305001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6124507	76	82	72	71	72	80
6124522	55	65	61	59	61	66
6124523	65	71	65	62	63	64
Blank	75	81	74	72	75	83
OPR	72	79	71	69	72	77
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6124507	74	64	55	84	81	74
6124522	62	53	48	64	64	61
6124523	63	54	45	74	70	63
Blank	76	67	57	81	80	74
OPR	73	65	55	85	79	72
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/26/11 at 02:19 PM

Group Number: 1218363

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6124507	69	71	71	64	76	81
6124522	58	60	60	54	53	62
6124523	59	60	60	52	64	69
Blank	71	73	75	67	75	83
OPR	69	71	71	64	73	79
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
Analysis Name: 10b Dioxin/Furan by EPA 1613B Batch number: 10308001						
	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6124506	70	75	51	56	55	58
Blank	71	76	54	57	57	60
OPR	70	69	52	56	56	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6124506	53	56	58	79	92	61
Blank	53	55	53	79	78	64
OPR	55	58	57	72	73	62
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6124506	68	68	65	70	73	71
Blank	68	70	65	62	74	71
OPR	66	69	67	69	69	68
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
Analysis Name: 10a Dioxin/Furan by EPA 1613B Batch number: 10313001						
	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6124500	71	74	69	70	68	67
6124501	73	80	72	74	71	71
6124502	75	82	74	72	73	78
6124503	76	76	67	68	68	71
6124504	76	84	73	71	73	74
6124505	76	76	67	68	70	72
6124509	73	78	74	73	73	77
6124510	78	81	73	74	73	73
6124511	79	83	75	74	75	75
Blank	78	77	70	75	70	70
MS	73	78	74	73	73	77
MSD	78	81	73	74	73	73
OPR	77	79	70	77	72	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/26/11 at 02:19 PM

Group Number: 1218363

Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6124500	76	60	54	77	75	71
6124501	81	60	54	81	81	75
6124502	75	69	62	80	82	75
6124503	72	61	55	79	78	70
6124504	71	68	61	83	85	75
6124505	74	62	52	77	79	71
6124509	76	65	58	77	79	75
6124510	79	64	58	82	83	76
6124511	74	70	64	86	83	77
Blank	86	59	51	85	82	77
MS	76	65	58	77	79	75
MSD	79	64	58	82	83	76
OPR	87	61	53	83	86	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6124500	66	69	68	61	69	77
6124501	71	71	71	65	74	82
6124502	70	73	73	67	76	80
6124503	65	69	69	62	72	77
6124504	69	72	71	66	76	81
6124505	67	73	71	63	74	81
6124509	71	74	71	65	73	78
6124510	71	73	72	65	76	82
6124511	72	75	74	69	79	82
Blank	70	73	73	65	72	81
MS	71	74	71	65	73	78
MSD	71	73	72	65	76	82
OPR	73	76	75	68	72	83
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
Analysis Name: 10a Dioxin/Furan by EPA 1613B						
Batch number: 10315001						
	13C12-2378-TCDD	13C12-123478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6124512	81	86	76	77	77	80
6124513	70	76	67	70	69	68
6124515	83	72	64	66	66	73
6124516	73	79	72	74	71	72
6124517	66	46	35	37	48	56
6124518	72	75	69	71	69	68
6124519	80	85	77	79	78	76
6124520	82	84	74	76	75	74
6124521	77	81	73	73	73	69
Blank	76	76	70	71	70	72
OPR	80	79	74	75	74	77
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/26/11 at 02:19 PM

Group Number: 1218363

Surrogate Quality Control (CRS)

6124512	78	64	53	83	88	77
6124513	74	59	48	78	78	71
6124515	70	58	48	78	74	67
6124516	77	60	51	83	80	74
6124517	38	49	42	45	49	40
6124518	73	59	49	77	76	71
6124519	81	65	53	81	87	81
6124520	77	59	47	85	85	78
6124521	77	64	56	83	82	76
Blank	76	62	51	81	78	75
OPR	80	66	56	80	83	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6124512	75	77	72	63	81	85
6124513	66	69	68	59	72	78
6124515	63	67	64	57	72	76
6124516	70	72	69	60	74	80
6124517	39	55	49	50	57	52
6124518	67	68	67	58	72	77
6124519	77	79	76	66	80	86
6124520	73	78	72	61	81	85
6124521	71	74	71	65	78	83
Blank	69	71	69	60	71	78
OPR	73	75	76	66	76	81
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
Analysis Name: 10a Dioxin/Furan by EPA 1613B						
Batch number: 10340002						
	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6124508	65	65	65	63	62	61
6124514	73	75	67	65	66	68
Blank	68	69	66	66	64	66
OPR	74	74	69	69	69	71
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6124508	67	58	53	70	68	67
6124514	68	67	61	76	76	72
Blank	67	61	54	75	72	72
OPR	75	65	57	79	79	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6124508	65	66	66	60	63	67
6124514	68	69	72	66	71	72

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/26/11 at 02:19 PM

Group Number: 1218363

Surrogate Quality Control

Blank	67	67	68	60	67	69
OPR	72	74	75	71	70	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

CHAIN OF CUSTODY RECORD

[illegible]

6124500-23

CHAIN OF CUSTODY RECORD

[illegible]

13013 1218363 6124500-23

CHAIN OF CUSTODY RECORD

[illegible]

612 4500-23

[illegible]

612 4500-23

[illegible]

6124500-23

CHAIN OF CUSTODY RECORD

[illegible]

13013 1218363 6124500-23

CHAIN OF CUSTODY RECORD[illegible]

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 28, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/28/2010
Group Number: 1218507
SDG: DX005
PO Number: 1203-004-007-AL
Release Number: TRACKING #11667
State of Sample Origin: CA

Client Sample Description

SL-073-SA5C-SS-0.0-0.5 Grab Soil
SL-142-SA5C-SS-0.0-0.5 Grab Soil
SL-114-SA5C-SS-0.0-0.5 Grab Soil
EB03-SA5C-102710 Grab Water
FB03-SA5C-102710 Grab Water

Lancaster Labs (LLI)

6125243
6125244
6125245
6125246
6125247

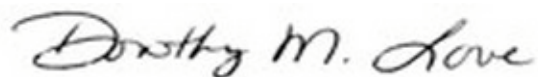
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO
1 COPY TO CDM Federal Services Program
Data Package Group

Attn: Todd Burgess

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Dorothy M. Love
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 4

Sample Description: SL-073-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5C-SS-0.0-0.5

LLI Sample # SW 6125243
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 10:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD073 SDG#: DX005-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5C-SS-0.0-0.5

LLI Sample # SW 6125243
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 10:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD073 SDG#: DX005-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.128 JBQ	0.0402	1.07	1
11031	12378-PeCDD	40321-76-4	0.789 J	0.0627	5.35	1
11031	123478-HxCDD	39227-28-6	1.22 JB	0.0802	5.35	1
11031	123678-HxCDD	57653-85-7	3.55 JB	0.0820	5.35	1
11031	123789-HxCDD	19408-74-3	2.73 JB	0.0822	5.35	1
11031	1234678-HpCDD	35822-46-9	104 B	0.116	5.35	1
11031	OCDD	3268-87-9	891 B	0.176	10.7	1
11031	2378-TCDF	51207-31-9	0.545 JBQ	0.0809	1.07	1
11031	12378-PeCDF	57117-41-6	0.505 JB	0.0550	5.35	1
11031	23478-PeCDF	57117-31-4	0.890 JBQ	0.0514	5.35	1
11031	123478-HxCDF	70648-26-9	0.947 JB	0.0615	5.35	1
11031	123678-HxCDF	57117-44-9	0.931 JB	0.0604	5.35	1
11031	123789-HxCDF	72918-21-9	0.477 JB	0.0758	5.35	1
11031	234678-HxCDF	60851-34-5	1.07 JB	0.0616	5.35	1
11031	1234678-HpCDF	67562-39-4	13.8 B	0.0944	5.35	1
11031	1234789-HpCDF	55673-89-7	1.29 JB	0.115	5.35	1
11031	OCDF	39001-02-0	32.4 B	0.118	10.7	1

The recoveries of several labeled compounds were outside QC limits. The sample was re-extracted outside of the client specified holding time. Comparable native compound results were observed between the two extractions.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	27	25 - 164
13C12-12378-PeCDD	29	25 - 181
13C12-123478-HxCDD	25	32 - 141
13C12-123678-HxCDD	24	28 - 130
13C12-123789-HxCDD	24	28 - 130
13C12-1234678-HpCDD	19	23 - 140
13C12-OCDD	13	17 - 157
13C12-2378-TCDF	25	24 - 169
13C12-12378-PeCDF	25	24 - 185
13C12-23478-PeCDF	28	21 - 178
13C12-123478-HxCDF	24	26 - 152
13C12-123678-HxCDF	24	26 - 123
13C12-234678-HxCDF	24	28 - 136
13C12-123789-HxCDF	22	29 - 147
13C12-1234678-HpCDF	19	28 - 143
13C12-1234789-HpCDF	16	26 - 138
13C12-OCDF	11	17 - 157
13C12-1278-TCDD (CRS)	29	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank

U Undetected

J Estimated concentration between Estimated Detection Limit and Minimum Level

E Exceeds calibration range

Sample Description: SL-073-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5C-SS-0.0-0.5

LLI Sample # SW 6125243
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 10:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD073 SDG#: DX005-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
C	Confirmed quantitation on secondary GC column					
Q	EMPC - Estimated Maximum Possible Concentration					
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-073-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5C-SS-0.0-0.5

LLI Sample # SW 6125243
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 10:25

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 10/28/2010 08:50

Suite 210

Reported: 01/28/2011 13:42

Chantilly VA 20151

SD073 SDG#: DX005-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10323001	12/03/2010 21:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10323001	11/19/2010 11:00	Deborah M Zimmerman	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162402B	11/04/2010 09:33	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-142-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5C-SS-0.0-0.5

LLI Sample # SW 6125244
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD142 SDG#: DX005-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-142-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5C-SS-0.0-0.5

LLI Sample # SW 6125244
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD142 SDG#: DX005-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0252 JBQ	0.0115	1.14	1
11031	12378-PeCDD	40321-76-4	0.235 JBQ	0.0295	5.68	1
11031	123478-HxCDD	39227-28-6	0.428 JBQ	0.0221	5.68	1
11031	123678-HxCDD	57653-85-7	1.48 JB	0.0227	5.68	1
11031	123789-HxCDD	19408-74-3	1.07 JB	0.0225	5.68	1
11031	1234678-HpCDD	35822-46-9	45.8 B	0.0367	5.68	1
11031	OCDD	3268-87-9	467 B	0.0403	11.4	1
11031	2378-TCDF	51207-31-9	0.157 JB	0.0310	1.14	1
11031	12378-PeCDF	57117-41-6	0.699 JB	0.0171	5.68	1
11031	23478-PeCDF	57117-31-4	0.188 JBQ	0.0161	5.68	1
11031	123478-HxCDF	70648-26-9	0.282 JB	0.0208	5.68	1
11031	123678-HxCDF	57117-44-9	0.238 JBQ	0.0200	5.68	1
11031	123789-HxCDF	72918-21-9	0.177 JB	0.0235	5.68	1
11031	234678-HxCDF	60851-34-5	0.313 JBQ	0.0205	5.68	1
11031	1234678-HpCDF	67562-39-4	4.68 JB	0.0153	5.68	1
11031	1234789-HpCDF	55673-89-7	0.470 JB	0.0196	5.68	1
11031	OCDF	39001-02-0	11.1 JB	0.0173	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-142-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5C-SS-0.0-0.5

LLI Sample # SW 6125244
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD142 SDG#: DX005-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-142-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5C-SS-0.0-0.5

LLI Sample # SW 6125244
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD142 SDG#: DX005-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10320001	11/19/2010 20:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10320001	11/16/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162402B	11/04/2010 09:33	William C Schwebel	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 4

Sample Description: SL-114-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5C-SS-0.0-0.5

LLI Sample # SW 6125245
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 08:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD114 SDG#: DX005-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-114-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5C-SS-0.0-0.5

LLI Sample # SW 6125245
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 08:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD114 SDG#: DX005-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.465	JB 0.0310	1.17	1
11031	12378-PeCDD	40321-76-4	4.25	JB 0.0686	5.83	1
11031	123478-HxCDD	39227-28-6	6.64	B 0.0537	5.83	1
11031	123678-HxCDD	57653-85-7	12.5	B 0.0541	5.83	1
11031	123789-HxCDD	19408-74-3	10.6	B 0.0580	5.83	1
11031	1234678-HpCDD	35822-46-9	273	B 0.153	5.83	1
11031	OCDD	3268-87-9	2,590	B 0.244	11.7	1
11031	2378-TCDF	51207-31-9	0.458	JBQ 0.0543	1.17	1
11031	12378-PeCDF	57117-41-6	0.699	JB 0.0372	5.83	1
11031	23478-PeCDF	57117-31-4	1.05	JB 0.0348	5.83	1
11031	123478-HxCDF	70648-26-9	2.25	JB 0.0494	5.83	1
11031	123678-HxCDF	57117-44-9	1.86	JB 0.0484	5.83	1
11031	123789-HxCDF	72918-21-9	0.685	JB 0.0488	5.83	1
11031	234678-HxCDF	60851-34-5	2.39	JB 0.0472	5.83	1
11031	1234678-HpCDF	67562-39-4	43.7	B 0.124	5.83	1
11031	1234789-HpCDF	55673-89-7	3.35	JBQ 0.148	5.83	1
11031	OCDF	39001-02-0	117	B 0.0790	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	40	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-114-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5C-SS-0.0-0.5

LLI Sample # SW 6125245
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 08:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD114 SDG#: DX005-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-114-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5C-SS-0.0-0.5

LLI Sample # SW 6125245
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 08:50

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 10/28/2010 08:50

Suite 210

Reported: 01/28/2011 13:42

Chantilly VA 20151

SD114 SDG#: DX005-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10320001	11/19/2010 21:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10320001	11/16/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162402B	11/04/2010 09:33	William C Schwebel	1

Sample Description: EB03-SA5C-102710 Grab Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5C-102710

LLI Sample # WW 6125246
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SDEB3 SDG#: DX005-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.145 JBQ	0.0708	2.00	1
10915	12378-PeCDD	40321-76-4	0.200 JBQ	0.139	10.0	1
10915	123478-HxCDD	39227-28-6	0.103 JBQ	0.0976	10.0	1
10915	123678-HxCDD	57653-85-7	0.258 JBQ	0.0949	10.0	1
10915	123789-HxCDD	19408-74-3	0.234 JBQ	0.0953	10.0	1
10915	1234678-HpCDD	35822-46-9	0.613 JBQ	0.0994	10.0	1
10915	OCDD	3268-87-9	1.53 JBQ	0.166	20.0	1
10915	2378-TCDF	51207-31-9	0.150 JQ	0.0701	2.00	1
10915	12378-PeCDF	57117-41-6	0.217 JBQ	0.0787	10.0	1
10915	23478-PeCDF	57117-31-4	0.413 JBQ	0.0685	10.0	1
10915	123478-HxCDF	70648-26-9	0.423 JB	0.0776	10.0	1
10915	123678-HxCDF	57117-44-9	0.393 JBQ	0.0730	10.0	1
10915	123789-HxCDF	72918-21-9	0.404 JBQ	0.0803	10.0	1
10915	234678-HxCDF	60851-34-5	0.420 JBQ	0.0766	10.0	1
10915	1234678-HpCDF	67562-39-4	1.43 JB	0.0448	10.0	1
10915	1234789-HpCDF	55673-89-7	0.517 JB	0.0593	10.0	1
10915	OCDF	39001-02-0	1.16 JBQ	0.116	20.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	61	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: EB03-SA5C-102710 Grab Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5C-102710

LLI Sample # WW 6125246
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SDEB3 SDG#: DX005-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305001	11/03/2010 02:00	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10305001	11/01/2010 09:30	Deborah M Zimmerman	1

Sample Description: FB03-SA5C-102710 Grab Water
SSFL Area IV Collocated Soil Sampling
FB03-SA5C-102710

LLI Sample # WW 6125247
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SDFB3 SDG#: DX005-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.0916 U	0.0916	1.93	1
10915	12378-PeCDD	40321-76-4	0.205 JBQ	0.142	9.65	1
10915	123478-HxCDD	39227-28-6	0.117 U	0.117	9.65	1
10915	123678-HxCDD	57653-85-7	0.134 JBQ	0.118	9.65	1
10915	123789-HxCDD	19408-74-3	0.193 JB	0.116	9.65	1
10915	1234678-HpCDD	35822-46-9	0.926 JBQ	0.112	9.65	1
10915	OCDD	3268-87-9	1.83 JBQ	0.187	19.3	1
10915	2378-TCDF	51207-31-9	0.0916 U	0.0916	1.93	1
10915	12378-PeCDF	57117-41-6	0.0792 U	0.0792	9.65	1
10915	23478-PeCDF	57117-31-4	0.515 JBQ	0.0741	9.65	1
10915	123478-HxCDF	70648-26-9	0.241 JBQ	0.0915	9.65	1
10915	123678-HxCDF	57117-44-9	0.294 JBQ	0.0889	9.65	1
10915	123789-HxCDF	72918-21-9	0.369 JBQ	0.0902	9.65	1
10915	234678-HxCDF	60851-34-5	0.663 JBQ	0.0867	9.65	1
10915	1234678-HpCDF	67562-39-4	2.13 JB	0.0690	9.65	1
10915	1234789-HpCDF	55673-89-7	0.390 JBQ	0.0864	9.65	1
10915	OCDF	39001-02-0	1.12 JBQ	0.115	19.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	55	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	56	28 - 130
13C12-123789-HxCDD	57	28 - 130
13C12-1234678-HpCDD	55	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	70	35 - 197

Dioxins/Furans Data Qualifiers:

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration

Sample Description: FB03-SA5C-102710 Grab Water
SSFL Area IV Collocated Soil Sampling
FB03-SA5C-102710

LLI Sample # WW 6125247
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SDFB3 SDG#: DX005-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305001	11/03/2010 03:00	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10305001	11/01/2010 09:30	Deborah M Zimmerman	1

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/28/11 at 01:42 PM

Group Number: 1218507

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10308162402B 28a Moisture Content by 160.3	Sample number(s): 6125243-6125245				100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10305001	Sample number(s): 6125246-6125247								
2378-TCDD	0.104 J	0.0811	2.00	pg/l	109		67-158		
12378-PeCDD	1.86 J	0.180	10.0	pg/l	110		70-142		
123478-HxCDD	2.02 J	0.165	10.0	pg/l	113		70-164		
123678-HxCDD	2.44 J	0.157	10.0	pg/l	110		76-134		
123789-HxCDD	2.77 J	0.162	10.0	pg/l	111		64-162		
1234678-HpCDD	2.59 J	0.155	10.0	pg/l	108		70-140		
OCDD	3.51 J	0.213	20.0	pg/l	107		78-144		
2378-TCDF	0.0905 U	0.0905	2.00	pg/l	112		75-158		
12378-PeCDF	1.74 J	0.0884	10.0	pg/l	113		80-134		
23478-PeCDF	1.92 J	0.0829	10.0	pg/l	112		68-160		
123478-HxCDF	2.90 J	0.130	10.0	pg/l	111		72-134		
123678-HxCDF	2.55 J	0.126	10.0	pg/l	108		84-130		
123789-HxCDF	3.13 J	0.130	10.0	pg/l	110		78-130		
234678-HxCDF	2.50 J	0.127	10.0	pg/l	111		70-156		
1234678-HpCDF	3.59 J	0.119	10.0	pg/l	109		82-122		
1234789-HpCDF	2.41 J	0.158	10.0	pg/l	109		78-138		
OCDF	3.49 J	0.175	20.0	pg/l	106		63-170		

Batch number: 10320001	Sample number(s): 6125244-6125245								
2378-TCDD	0.0345 J	0.00950	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0193 J	0.0120	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0175 J	0.00980	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0256 J	0.00970	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0324 J	0.0100	5.00	ng/kg	98		64-162		
1234678-HpCDD	0.115 J	0.0112	5.00	ng/kg	98		70-140		
OCDD	0.250 J	0.0101	10.0	ng/kg	98		78-144		
2378-TCDF	0.0210 J	0.0109	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0359 J	0.00640	5.00	ng/kg	97		80-134		
23478-PeCDF	0.0584 J	0.00570	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0596 J	0.00820	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0292 J	0.00780	5.00	ng/kg	100		84-130		
123789-HxCDF	0.0687 J	0.00920	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0223 J	0.00810	5.00	ng/kg	97		70-156		
1234678-HpCDF	0.0836 J	0.00530	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.0720 J	0.00670	5.00	ng/kg	99		78-138		
OCDF	0.158 J	0.0113	10.0	ng/kg	97		63-170		

Batch number: 10323001	Sample number(s): 6125243								
2378-TCDD	0.0306 J	0.0118	1.00	ng/kg	85		67-158		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/28/11 at 01:42 PM

Group Number: 1218507

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
12378-PeCDD	0.0123 U	0.0123	5.00	ng/kg	87		70-142		
123478-HxCDD	0.0399 J	0.0140	5.00	ng/kg	89		70-164		
123678-HxCDD	0.0582 J	0.0146	5.00	ng/kg	86		76-134		
123789-HxCDD	0.0559 J	0.0149	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.424 J	0.0176	5.00	ng/kg	88		70-140		
OCDD	0.748 J	0.0150	10.0	ng/kg	88		78-144		
2378-TCDF	0.0216 J	0.0169	1.00	ng/kg	88		75-158		
12378-PeCDF	0.0721 J	0.0124	5.00	ng/kg	88		80-134		
23478-PeCDF	0.194 J	0.0111	5.00	ng/kg	89		68-160		
123478-HxCDF	0.293 J	0.0182	5.00	ng/kg	88		72-134		
123678-HxCDF	0.238 J	0.0169	5.00	ng/kg	86		84-130		
123789-HxCDF	0.155 J	0.0207	5.00	ng/kg	87		78-130		
234678-HxCDF	0.380 J	0.0175	5.00	ng/kg	87		70-156		
1234678-HpCDF	1.68 J	0.0116	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.192 J	0.0168	5.00	ng/kg	90		78-138		
OCDF	0.853 J	0.0157	10.0	ng/kg	87		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 10308162402B 28a Moisture Content by 160.3	Sample number(s): 6125243-6125245 BKG: P125239 11.9 12.3 3 20								
Batch number: 10320001	Sample number(s): 6125244-6125245 UNSPK: P130768								
2378-TCDD	91	92	67-158	1	25				
12378-PeCDD	95	95	70-142	1	25				
123478-HxCDD	98	99	70-164	1	25				
123678-HxCDD	98	96	76-134	2	25				
123789-HxCDD	98	97	64-162	1	25				
1234678-HpCDD	129	123	70-140	5	25				
OCDD	316*	274*	78-144	14	25				
2378-TCDF	94	95	75-158	1	25				
12378-PeCDF	98	97	80-134	0	25				
23478-PeCDF	95	96	68-160	0	25				
123478-HxCDF	97	98	72-134	1	25				
123678-HxCDF	97	97	84-130	1	25				
123789-HxCDF	98	97	78-130	1	25				
234678-HxCDF	97	98	70-156	1	25				
1234678-HpCDF	102	100	82-122	3	25				
1234789-HpCDF	99	100	78-138	1	25				
OCDF	102	102	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/28/11 at 01:42 PM

Group Number: 1218507

Surrogate Quality Control

Batch number: 10305001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6125246	65	77	64	64	66	68
6125247	55	64	58	57	59	64
Blank	75	81	74	72	75	83
OPR	72	79	71	69	72	77

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD

6125246	64	56	49	80	76	65
6125247	57	52	46	70	62	59
Blank	76	67	57	81	80	74
OPR	73	65	55	85	79	72

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

6125246	61	63	61	55	67	70
6125247	56	57	55	50	56	62
Blank	71	73	75	67	75	83
OPR	69	71	71	64	73	79

Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B

Batch number: 10320001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6125244	75	87	75	73	74	69
6125245	81	82	75	70	73	71
Blank	68	79	71	69	69	65
MS	71	81	72	72	72	70
MSD	72	81	71	69	70	65
OPR	80	91	76	76	77	77

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD

6125244	73	66	54	83	90	78
6125245	62	56	37	87	87	78
Blank	71	64	56	77	83	74
MS	71	65	55	76	84	76
MSD	69	62	53	85	83	73
OPR	77	69	61	85	98	81

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

6125244	73	75	73	64	75	84

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/28/11 at 01:42 PM

Group Number: 1218507

Surrogate Quality Control

6125245	73	74	62	40	80	82
Blank	69	71	70	61	69	78
MS	71	74	72	62	69	78
MSD	70	70	69	59	69	77
OPR	76	77	75	66	77	85
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
Analysis Name: 10a Dioxin/Furan by EPA 1613B						
Batch number: 10323001						
	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6125243	27	28	24*	24*	24*	22*
Blank	84	95	78	80	79	76
OPR	81	89	73	77	75	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6125243	19*	16*	11*	29*	29	25*
Blank	82	67	52	88	97	86
OPR	75	60	51	83	97	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6125243	24*	24*	19*	13*	25	25
Blank	80	81	78	62	74	91
OPR	79	78	71	69	71	81
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

13013 1218507 6125243-47

CHAIN OF CUSTODY RECORD

[illegible]

13013 1218507 6125243-47

CHAIN OF CUSTODY RECORD

[illegible]

13013 1718507 6125243-47

CHAIN OF CUSTODY RECORD

[illegible]

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

January 28, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/28/2010

Group Number: 1218507

SDG: DX005

PO Number: 1203-004-007-AL

Release Number: TRACKING #11667

State of Sample Origin: CA

Client Sample Description

SL-073-SA5C-SS-0.0-0.5 Grab Soil
SL-142-SA5C-SS-0.0-0.5 Grab Soil
SL-114-SA5C-SS-0.0-0.5 Grab Soil
EB03-SA5C-102710 Grab Water
FB03-SA5C-102710 Grab Water

Lancaster Labs (LLI)

6125243
6125244
6125245
6125246
6125247

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

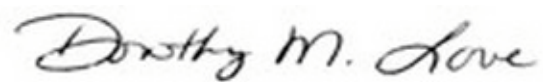
ELECTRONIC
COPY TO
1 COPY TO

CDM Federal Services Program
Data Package Group

Attn: Todd Burgess

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Dorothy M. Love
Group Leader



Analysis Report

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Page 1 of 4

Sample Description: SL-073-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5C-SS-0.0-0.5

LLI Sample # SW 6125243
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 10:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD073 SDG#: DX005-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5C-SS-0.0-0.5

LLI Sample # SW 6125243
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 10:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD073 SDG#: DX005-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.128 JBQ	0.0402	1.07	1
11031	12378-PeCDD	40321-76-4	0.789 J	0.0627	5.35	1
11031	123478-HxCDD	39227-28-6	1.22 JB	0.0802	5.35	1
11031	123678-HxCDD	57653-85-7	3.55 JB	0.0820	5.35	1
11031	123789-HxCDD	19408-74-3	2.73 JB	0.0822	5.35	1
11031	1234678-HpCDD	35822-46-9	104 B	0.116	5.35	1
11031	OCDD	3268-87-9	891 B	0.176	10.7	1
11031	2378-TCDF	51207-31-9	0.545 JBQ	0.0809	1.07	1
11031	12378-PeCDF	57117-41-6	0.505 JB	0.0550	5.35	1
11031	23478-PeCDF	57117-31-4	0.890 JBQ	0.0514	5.35	1
11031	123478-HxCDF	70648-26-9	0.947 JB	0.0615	5.35	1
11031	123678-HxCDF	57117-44-9	0.931 JB	0.0604	5.35	1
11031	123789-HxCDF	72918-21-9	0.477 JB	0.0758	5.35	1
11031	234678-HxCDF	60851-34-5	1.07 JB	0.0616	5.35	1
11031	1234678-HpCDF	67562-39-4	13.8 B	0.0944	5.35	1
11031	1234789-HpCDF	55673-89-7	1.29 JB	0.115	5.35	1
11031	OCDF	39001-02-0	32.4 B	0.118	10.7	1

The recoveries of several labeled compounds were outside QC limits. The sample was re-extracted outside of the client specified holding time. Comparable native compound results were observed between the two extractions.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	27	25 - 164
13C12-12378-PeCDD	29	25 - 181
13C12-123478-HxCDD	25	32 - 141
13C12-123678-HxCDD	24	28 - 130
13C12-123789-HxCDD	24	28 - 130
13C12-1234678-HpCDD	19	23 - 140
13C12-OCDD	13	17 - 157
13C12-2378-TCDF	25	24 - 169
13C12-12378-PeCDF	25	24 - 185
13C12-23478-PeCDF	28	21 - 178
13C12-123478-HxCDF	24	26 - 152
13C12-123678-HxCDF	24	26 - 123
13C12-234678-HxCDF	24	28 - 136
13C12-123789-HxCDF	22	29 - 147
13C12-1234678-HpCDF	19	28 - 143
13C12-1234789-HpCDF	16	26 - 138
13C12-OCDF	11	17 - 157
13C12-1278-TCDD (CRS)	29	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank

U Undetected

J Estimated concentration between Estimated Detection Limit and Minimum Level

E Exceeds calibration range

Sample Description: SL-073-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5C-SS-0.0-0.5

LLI Sample # SW 6125243
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 10:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD073 SDG#: DX005-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
C	Confirmed quantitation on secondary GC column					
Q	EMPC - Estimated Maximum Possible Concentration					
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-073-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5C-SS-0.0-0.5

LLI Sample # SW 6125243
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 10:25

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 10/28/2010 08:50

Suite 210

Reported: 01/28/2011 13:42

Chantilly VA 20151

SD073 SDG#: DX005-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10323001	12/03/2010 21:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10323001	11/19/2010 11:00	Deborah M Zimmerman	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	10357002	12/23/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162402B	11/04/2010 09:33	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-142-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5C-SS-0.0-0.5

LLI Sample # SW 6125244
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD142 SDG#: DX005-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
11625	28a Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-142-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5C-SS-0.0-0.5

LLI Sample # SW 6125244
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD142 SDG#: DX005-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0252 JBQ	0.0115	1.14	1
11031	12378-PeCDD	40321-76-4	0.235 JBQ	0.0295	5.68	1
11031	123478-HxCDD	39227-28-6	0.428 JBQ	0.0221	5.68	1
11031	123678-HxCDD	57653-85-7	1.48 JB	0.0227	5.68	1
11031	123789-HxCDD	19408-74-3	1.07 JB	0.0225	5.68	1
11031	1234678-HpCDD	35822-46-9	45.8 B	0.0367	5.68	1
11031	OCDD	3268-87-9	467 B	0.0403	11.4	1
11031	2378-TCDF	51207-31-9	0.157 JB	0.0310	1.14	1
11031	12378-PeCDF	57117-41-6	0.699 JB	0.0171	5.68	1
11031	23478-PeCDF	57117-31-4	0.188 JBQ	0.0161	5.68	1
11031	123478-HxCDF	70648-26-9	0.282 JB	0.0208	5.68	1
11031	123678-HxCDF	57117-44-9	0.238 JBQ	0.0200	5.68	1
11031	123789-HxCDF	72918-21-9	0.177 JB	0.0235	5.68	1
11031	234678-HxCDF	60851-34-5	0.313 JBQ	0.0205	5.68	1
11031	1234678-HpCDF	67562-39-4	4.68 JB	0.0153	5.68	1
11031	1234789-HpCDF	55673-89-7	0.470 JB	0.0196	5.68	1
11031	OCDF	39001-02-0	11.1 JB	0.0173	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-142-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5C-SS-0.0-0.5

LLI Sample # SW 6125244
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD142 SDG#: DX005-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-142-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5C-SS-0.0-0.5

LLI Sample # SW 6125244
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD142 SDG#: DX005-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10320001	11/19/2010 20:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10320001	11/16/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162402B	11/04/2010 09:33	William C Schwebel	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 4

Sample Description: SL-114-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5C-SS-0.0-0.5

LLI Sample # SW 6125245
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 08:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD114 SDG#: DX005-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry EPA 160.3 modified						
11625	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-114-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5C-SS-0.0-0.5

LLI Sample # SW 6125245
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 08:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SD114 SDG#: DX005-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.465	JB 0.0310	1.17	1
11031	12378-PeCDD	40321-76-4	4.25	JB 0.0686	5.83	1
11031	123478-HxCDD	39227-28-6	6.64	B 0.0537	5.83	1
11031	123678-HxCDD	57653-85-7	12.5	B 0.0541	5.83	1
11031	123789-HxCDD	19408-74-3	10.6	B 0.0580	5.83	1
11031	1234678-HpCDD	35822-46-9	273	B 0.153	5.83	1
11031	OCDD	3268-87-9	2,590	B 0.244	11.7	1
11031	2378-TCDF	51207-31-9	0.458	JBQ 0.0543	1.17	1
11031	12378-PeCDF	57117-41-6	0.699	JB 0.0372	5.83	1
11031	23478-PeCDF	57117-31-4	1.05	JB 0.0348	5.83	1
11031	123478-HxCDF	70648-26-9	2.25	JB 0.0494	5.83	1
11031	123678-HxCDF	57117-44-9	1.86	JB 0.0484	5.83	1
11031	123789-HxCDF	72918-21-9	0.685	JB 0.0488	5.83	1
11031	234678-HxCDF	60851-34-5	2.39	JB 0.0472	5.83	1
11031	1234678-HpCDF	67562-39-4	43.7	B 0.124	5.83	1
11031	1234789-HpCDF	55673-89-7	3.35	JBQ 0.148	5.83	1
11031	OCDF	39001-02-0	117	B 0.0790	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	40	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-114-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5C-SS-0.0-0.5

LLI Sample # SW 6125245
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 08:50

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 10/28/2010 08:50

Suite 210

Reported: 01/28/2011 13:42

Chantilly VA 20151

SD114 SDG#: DX005-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-114-SA5C-SS-0.0-0.5 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5C-SS-0.0-0.5

LLI Sample # SW 6125245
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 08:50

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 10/28/2010 08:50

Suite 210

Reported: 01/28/2011 13:42

Chantilly VA 20151

SD114 SDG#: DX005-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	10320001	11/19/2010 21:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10320001	11/16/2010 13:00	Deborah M Zimmerman	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10308162402B	11/04/2010 09:33	William C Schwebel	1

Sample Description: EB03-SA5C-102710 Grab Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5C-102710

LLI Sample # WW 6125246
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SDEB3 SDG#: DX005-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.145 JBQ	0.0708	2.00	1
10915	12378-PeCDD	40321-76-4	0.200 JBQ	0.139	10.0	1
10915	123478-HxCDD	39227-28-6	0.103 JBQ	0.0976	10.0	1
10915	123678-HxCDD	57653-85-7	0.258 JBQ	0.0949	10.0	1
10915	123789-HxCDD	19408-74-3	0.234 JBQ	0.0953	10.0	1
10915	1234678-HpCDD	35822-46-9	0.613 JBQ	0.0994	10.0	1
10915	OCDD	3268-87-9	1.53 JBQ	0.166	20.0	1
10915	2378-TCDF	51207-31-9	0.150 JQ	0.0701	2.00	1
10915	12378-PeCDF	57117-41-6	0.217 JBQ	0.0787	10.0	1
10915	23478-PeCDF	57117-31-4	0.413 JBQ	0.0685	10.0	1
10915	123478-HxCDF	70648-26-9	0.423 JB	0.0776	10.0	1
10915	123678-HxCDF	57117-44-9	0.393 JBQ	0.0730	10.0	1
10915	123789-HxCDF	72918-21-9	0.404 JBQ	0.0803	10.0	1
10915	234678-HxCDF	60851-34-5	0.420 JBQ	0.0766	10.0	1
10915	1234678-HpCDF	67562-39-4	1.43 JB	0.0448	10.0	1
10915	1234789-HpCDF	55673-89-7	0.517 JB	0.0593	10.0	1
10915	OCDF	39001-02-0	1.16 JBQ	0.116	20.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	61	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: EB03-SA5C-102710 Grab Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5C-102710

LLI Sample # WW 6125246
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SDEB3 SDG#: DX005-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305001	11/03/2010 02:00	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10305001	11/01/2010 09:30	Deborah M Zimmerman	1

Sample Description: FB03-SA5C-102710 Grab Water
SSFL Area IV Collocated Soil Sampling
FB03-SA5C-102710

LLI Sample # WW 6125247
LLI Group # 1218507
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2010 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SDFB3 SDG#: DX005-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.0916 U	0.0916	1.93	1
10915	12378-PeCDD	40321-76-4	0.205 JBQ	0.142	9.65	1
10915	123478-HxCDD	39227-28-6	0.117 U	0.117	9.65	1
10915	123678-HxCDD	57653-85-7	0.134 JBQ	0.118	9.65	1
10915	123789-HxCDD	19408-74-3	0.193 JB	0.116	9.65	1
10915	1234678-HpCDD	35822-46-9	0.926 JBQ	0.112	9.65	1
10915	OCDD	3268-87-9	1.83 JBQ	0.187	19.3	1
10915	2378-TCDF	51207-31-9	0.0916 U	0.0916	1.93	1
10915	12378-PeCDF	57117-41-6	0.0792 U	0.0792	9.65	1
10915	23478-PeCDF	57117-31-4	0.515 JBQ	0.0741	9.65	1
10915	123478-HxCDF	70648-26-9	0.241 JBQ	0.0915	9.65	1
10915	123678-HxCDF	57117-44-9	0.294 JBQ	0.0889	9.65	1
10915	123789-HxCDF	72918-21-9	0.369 JBQ	0.0902	9.65	1
10915	234678-HxCDF	60851-34-5	0.663 JBQ	0.0867	9.65	1
10915	1234678-HpCDF	67562-39-4	2.13 JB	0.0690	9.65	1
10915	1234789-HpCDF	55673-89-7	0.390 JBQ	0.0864	9.65	1
10915	OCDF	39001-02-0	1.12 JBQ	0.115	19.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	55	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	56	28 - 130
13C12-123789-HxCDD	57	28 - 130
13C12-1234678-HpCDD	55	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	70	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: **FB03-SA5C-102710 Grab Water**
SSFL Area IV Collocated Soil Sampling
FB03-SA5C-102710

LLI Sample # **WW 6125247**
LLI Group # **1218507**
Account # **13013**

Project Name: **SSFL Area IV Collocated Soil Sampling**

Collected: 10/27/2010 11:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 10/28/2010 08:50

Reported: 01/28/2011 13:42

SDFB3 SDG#: DX005-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	10305001	11/03/2010 03:00	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	10305001	11/01/2010 09:30	Deborah M Zimmerman	1

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/28/11 at 01:42 PM

Group Number: 1218507

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10308162402B 28a Moisture Content by 160.3	Sample number(s): 6125243-6125245				100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 10305001	Sample number(s): 6125246-6125247								
2378-TCDD	0.104 J	0.0811	2.00	pg/l	109		67-158		
12378-PeCDD	1.86 J	0.180	10.0	pg/l	110		70-142		
123478-HxCDD	2.02 J	0.165	10.0	pg/l	113		70-164		
123678-HxCDD	2.44 J	0.157	10.0	pg/l	110		76-134		
123789-HxCDD	2.77 J	0.162	10.0	pg/l	111		64-162		
1234678-HpCDD	2.59 J	0.155	10.0	pg/l	108		70-140		
OCDD	3.51 J	0.213	20.0	pg/l	107		78-144		
2378-TCDF	0.0905 U	0.0905	2.00	pg/l	112		75-158		
12378-PeCDF	1.74 J	0.0884	10.0	pg/l	113		80-134		
23478-PeCDF	1.92 J	0.0829	10.0	pg/l	112		68-160		
123478-HxCDF	2.90 J	0.130	10.0	pg/l	111		72-134		
123678-HxCDF	2.55 J	0.126	10.0	pg/l	108		84-130		
123789-HxCDF	3.13 J	0.130	10.0	pg/l	110		78-130		
234678-HxCDF	2.50 J	0.127	10.0	pg/l	111		70-156		
1234678-HpCDF	3.59 J	0.119	10.0	pg/l	109		82-122		
1234789-HpCDF	2.41 J	0.158	10.0	pg/l	109		78-138		
OCDF	3.49 J	0.175	20.0	pg/l	106		63-170		

Batch number: 10320001	Sample number(s): 6125244-6125245								
2378-TCDD	0.0345 J	0.00950	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0193 J	0.0120	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0175 J	0.00980	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0256 J	0.00970	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0324 J	0.0100	5.00	ng/kg	98		64-162		
1234678-HpCDD	0.115 J	0.0112	5.00	ng/kg	98		70-140		
OCDD	0.250 J	0.0101	10.0	ng/kg	98		78-144		
2378-TCDF	0.0210 J	0.0109	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0359 J	0.00640	5.00	ng/kg	97		80-134		
23478-PeCDF	0.0584 J	0.00570	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0596 J	0.00820	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0292 J	0.00780	5.00	ng/kg	100		84-130		
123789-HxCDF	0.0687 J	0.00920	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0223 J	0.00810	5.00	ng/kg	97		70-156		
1234678-HpCDF	0.0836 J	0.00530	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.0720 J	0.00670	5.00	ng/kg	99		78-138		
OCDF	0.158 J	0.0113	10.0	ng/kg	97		63-170		

Batch number: 10323001	Sample number(s): 6125243								
2378-TCDD	0.0306 J	0.0118	1.00	ng/kg	85		67-158		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/28/11 at 01:42 PM

Group Number: 1218507

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
12378-PeCDD	0.0123 U	0.0123	5.00	ng/kg	87		70-142		
123478-HxCDD	0.0399 J	0.0140	5.00	ng/kg	89		70-164		
123678-HxCDD	0.0582 J	0.0146	5.00	ng/kg	86		76-134		
123789-HxCDD	0.0559 J	0.0149	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.424 J	0.0176	5.00	ng/kg	88		70-140		
OCDD	0.748 J	0.0150	10.0	ng/kg	88		78-144		
2378-TCDF	0.0216 J	0.0169	1.00	ng/kg	88		75-158		
12378-PeCDF	0.0721 J	0.0124	5.00	ng/kg	88		80-134		
23478-PeCDF	0.194 J	0.0111	5.00	ng/kg	89		68-160		
123478-HxCDF	0.293 J	0.0182	5.00	ng/kg	88		72-134		
123678-HxCDF	0.238 J	0.0169	5.00	ng/kg	86		84-130		
123789-HxCDF	0.155 J	0.0207	5.00	ng/kg	87		78-130		
234678-HxCDF	0.380 J	0.0175	5.00	ng/kg	87		70-156		
1234678-HpCDF	1.68 J	0.0116	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.192 J	0.0168	5.00	ng/kg	90		78-138		
OCDF	0.853 J	0.0157	10.0	ng/kg	87		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 10308162402B 28a Moisture Content by 160.3	Sample number(s): 6125243-6125245 BKG: P125239 11.9 12.3 3 20								
Batch number: 10320001	Sample number(s): 6125244-6125245 UNSPK: P130768								
2378-TCDD	91	92	67-158	1	25				
12378-PeCDD	95	95	70-142	1	25				
123478-HxCDD	98	99	70-164	1	25				
123678-HxCDD	98	96	76-134	2	25				
123789-HxCDD	98	97	64-162	1	25				
1234678-HpCDD	129	123	70-140	5	25				
OCDD	316*	274*	78-144	14	25				
2378-TCDF	94	95	75-158	1	25				
12378-PeCDF	98	97	80-134	0	25				
23478-PeCDF	95	96	68-160	0	25				
123478-HxCDF	97	98	72-134	1	25				
123678-HxCDF	97	97	84-130	1	25				
123789-HxCDF	98	97	78-130	1	25				
234678-HxCDF	97	98	70-156	1	25				
1234678-HpCDF	102	100	82-122	3	25				
1234789-HpCDF	99	100	78-138	1	25				
OCDF	102	102	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/28/11 at 01:42 PM

Group Number: 1218507

Surrogate Quality Control

Batch number: 10305001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6125246	65	77	64	64	66	68
6125247	55	64	58	57	59	64
Blank	75	81	74	72	75	83
OPR	72	79	71	69	72	77

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD

6125246	64	56	49	80	76	65
6125247	57	52	46	70	62	59
Blank	76	67	57	81	80	74
OPR	73	65	55	85	79	72

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

6125246	61	63	61	55	67	70
6125247	56	57	55	50	56	62
Blank	71	73	75	67	75	83
OPR	69	71	71	64	73	79

Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B

Batch number: 10320001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6125244	75	87	75	73	74	69
6125245	81	82	75	70	73	71
Blank	68	79	71	69	69	65
MS	71	81	72	72	72	70
MSD	72	81	71	69	70	65
OPR	80	91	76	76	77	77

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD

6125244	73	66	54	83	90	78
6125245	62	56	37	87	87	78
Blank	71	64	56	77	83	74
MS	71	65	55	76	84	76
MSD	69	62	53	85	83	73
OPR	77	69	61	85	98	81

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

6125244	73	75	73	64	75	84

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/28/11 at 01:42 PM

Group Number: 1218507

Surrogate Quality Control

6125245	73	74	62	40	80	82
Blank	69	71	70	61	69	78
MS	71	74	72	62	69	78
MSD	70	70	69	59	69	77
OPR	76	77	75	66	77	85
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
Analysis Name: 10a Dioxin/Furan by EPA 1613B						
Batch number: 10323001						
	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6125243	27	28	24*	24*	24*	22*
Blank	84	95	78	80	79	76
OPR	81	89	73	77	75	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6125243	19*	16*	11*	29*	29	25*
Blank	82	67	52	88	97	86
OPR	75	60	51	83	97	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6125243	24*	24*	19*	13*	25	25
Blank	80	81	78	62	74	91
OPR	79	78	71	69	71	81
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

13013 1218507 6125243-47

CHAIN OF CUSTODY RECORD

[illegible]

13013 1218507 6125243-47

CHAIN OF CUSTODY RECORD

[illegible]

13013 1218507 6125243-47

CHAIN OF CUSTODY RECORD

[illegible]

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns $>25\%$
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is $<CRDL$, but $\geq IDL$
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 13, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/04/2010

Group Number: 1219744

SDG: DX006

PO Number: 1203-004-007-AL

Release Number: TRACKING #11667

State of Sample Origin: CA

Client Sample DescriptionSL-118-SA5C-SB-4.0-5.0 Grab Soil
SL-118-SA5C-SB-9.0-10.0 Grab Soil
SL-119-SA5C-SB-4.0-5.0 Grab Soil
SL-119-SA5C-SB-6.0-7.0 Grab Soil
SL-120-SA5C-SB-4.0-5.0 Grab Soil
SL-120-SA5C-SB-9.0-10.0 Grab Soil
SL-130-SA5C-SB-4.0-5.0 Grab Soil
SL-130-SA5C-SB-9.0-10.0 Grab SoilLancaster Labs (LLI) #6132181
6132182
6132183
6132184
6132185
6132186
6132187
6132188

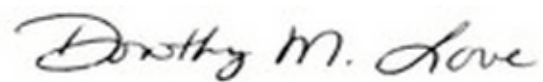
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program
COPY TO
1 COPY TO Data Package Group

Attn: Todd Burgess

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Dorothy M. Love
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 4

Sample Description: SL-118-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-4.0-5.0

LLI Sample # SW 6132181
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1184 SDG#: DX006-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified		%	%	%	
11625	Moisture CDM	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-118-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-4.0-5.0

LLI Sample # SW 6132181
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1184 SDG#: DX006-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0230 JBQ	0.0116	1.11	1
11031	12378-PeCDD	40321-76-4	0.0277 JBQ	0.0166	5.57	1
11031	123478-HxCDD	39227-28-6	0.0322 JB	0.0149	5.57	1
11031	123678-HxCDD	57653-85-7	0.0376 JBQ	0.0146	5.57	1
11031	123789-HxCDD	19408-74-3	0.0470 JBQ	0.0149	5.57	1
11031	1234678-HpCDD	35822-46-9	0.316 JB	0.0229	5.57	1
11031	OCDD	3268-87-9	0.917 JB	0.0203	11.1	1
11031	2378-TCDF	51207-31-9	0.0161 U	0.0161	1.11	1
11031	12378-PeCDF	57117-41-6	0.0525 JBQ	0.0119	5.57	1
11031	23478-PeCDF	57117-31-4	0.114 JB	0.0109	5.57	1
11031	123478-HxCDF	70648-26-9	0.165 JB	0.0212	5.57	1
11031	123678-HxCDF	57117-44-9	0.133 JB	0.0198	5.57	1
11031	123789-HxCDF	72918-21-9	0.123 JB	0.0229	5.57	1
11031	234678-HxCDF	60851-34-5	0.234 JBQ	0.0200	5.57	1
11031	1234678-HpCDF	67562-39-4	0.919 JB	0.0125	5.57	1
11031	1234789-HpCDF	55673-89-7	0.118 JBQ	0.0182	5.57	1
11031	OCDF	39001-02-0	0.517 JB	0.0187	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-118-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-4.0-5.0

LLI Sample # SW 6132181
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1184 SDG#: DX006-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-118-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-4.0-5.0

LLI Sample # SW 6132181
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1184 SDG#: DX006-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10321001	11/20/2010 18:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10321001	11/17/2010 15:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-118-SA5C-SB-9.0-10.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-9.0-10.0

LLI Sample # SW 6132182
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1189 SDG#: DX006-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified		%	%	%	
11625	Moisture CDM	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-118-SA5C-SB-9.0-10.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-9.0-10.0

LLI Sample # SW 6132182
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1189 SDG#: DX006-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0174 JBQ	0.0105	1.15	1
11031	12378-PeCDD	40321-76-4	0.0221 JBQ	0.0122	5.76	1
11031	123478-HxCDD	39227-28-6	0.0149 JBQ	0.0141	5.76	1
11031	123678-HxCDD	57653-85-7	0.0273 JBQ	0.0136	5.76	1
11031	123789-HxCDD	19408-74-3	0.0295 JBQ	0.0144	5.76	1
11031	1234678-HpCDD	35822-46-9	0.328 JB	0.0182	5.76	1
11031	OCDD	3268-87-9	1.80 JB	0.0157	11.5	1
11031	2378-TCDF	51207-31-9	0.0127 U	0.0127	1.15	1
11031	12378-PeCDF	57117-41-6	0.0296 JBQ	0.00864	5.76	1
11031	23478-PeCDF	57117-31-4	0.0995 JBQ	0.00818	5.76	1
11031	123478-HxCDF	70648-26-9	0.116 JBQ	0.0152	5.76	1
11031	123678-HxCDF	57117-44-9	0.0887 JB	0.0143	5.76	1
11031	123789-HxCDF	72918-21-9	0.0763 JB	0.0169	5.76	1
11031	234678-HxCDF	60851-34-5	0.171 JB	0.0150	5.76	1
11031	1234678-HpCDF	67562-39-4	0.744 JB	0.0100	5.76	1
11031	1234789-HpCDF	55673-89-7	0.0844 JBQ	0.0144	5.76	1
11031	OCDF	39001-02-0	0.372 JB	0.0153	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-118-SA5C-SB-9.0-10.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-9.0-10.0

LLI Sample # SW 6132182
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1189 SDG#: DX006-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-118-SA5C-SB-9.0-10.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5C-SB-9.0-10.0

LLI Sample # SW 6132182
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1189 SDG#: DX006-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10321001	11/20/2010 19:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10321001	11/17/2010 15:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-119-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-4.0-5.0

LLI Sample # SW 6132183
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1194 SDG#: DX006-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified		%	%	%	
11625	Moisture CDM	n.a.	7.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-4.0-5.0

LLI Sample # SW 6132183
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1194 SDG#: DX006-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0585	JBQ 0.0194	1.08	1
11031	12378-PeCDD	40321-76-4	0.591	JB 0.0615	5.42	1
11031	123478-HxCDD	39227-28-6	1.84	JB 0.0474	5.42	1
11031	123678-HxCDD	57653-85-7	4.70	JB 0.0486	5.42	1
11031	123789-HxCDD	19408-74-3	3.35	JB 0.0504	5.42	1
11031	1234678-HpCDD	35822-46-9	143	B 0.148	5.42	1
11031	OCDD	3268-87-9	2,600	B 0.141	10.8	1
11031	2378-TCDF	51207-31-9	0.0246	U 0.0246	1.08	1
11031	12378-PeCDF	57117-41-6	0.109	JB 0.0154	5.42	1
11031	23478-PeCDF	57117-31-4	0.248	JB 0.0145	5.42	1
11031	123478-HxCDF	70648-26-9	0.550	JB 0.0252	5.42	1
11031	123678-HxCDF	57117-44-9	0.270	JB 0.0239	5.42	1
11031	123789-HxCDF	72918-21-9	0.292	JB 0.0264	5.42	1
11031	234678-HxCDF	60851-34-5	0.408	JBQ 0.0246	5.42	1
11031	1234678-HpCDF	67562-39-4	7.06	B 0.0258	5.42	1
11031	1234789-HpCDF	55673-89-7	0.473	JB 0.0359	5.42	1
11031	OCDF	39001-02-0	31.4	B 0.0344	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-119-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-4.0-5.0

LLI Sample # SW 6132183
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1194 SDG#: DX006-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-119-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-4.0-5.0

LLI Sample # SW 6132183
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1194 SDG#: DX006-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10321001	11/20/2010 20:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10321001	11/17/2010 15:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-119-SA5C-SB-6.0-7.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-6.0-7.0

LLI Sample # SW 6132184
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1196 SDG#: DX006-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified	%	%	%		
11625 Moisture CDM	n.a.	7.5	0.50	0.50	1	

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA5C-SB-6.0-7.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-6.0-7.0

LLI Sample # SW 6132184
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1196 SDG#: DX006-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0122 U	0.0122	1.08	1
11031	12378-PeCDD	40321-76-4	0.114 JBQ	0.0210	5.41	1
11031	123478-HxCDD	39227-28-6	0.256 JB	0.0274	5.41	1
11031	123678-HxCDD	57653-85-7	0.537 JB	0.0276	5.41	1
11031	123789-HxCDD	19408-74-3	0.424 JB	0.0284	5.41	1
11031	1234678-HpCDD	35822-46-9	17.7 B	0.0511	5.41	1
11031	OCDD	3268-87-9	359 B	0.0799	10.8	1
11031	2378-TCDF	51207-31-9	0.0164 U	0.0164	1.08	1
11031	12378-PeCDF	57117-41-6	0.0574 JBQ	0.0117	5.41	1
11031	23478-PeCDF	57117-31-4	0.120 JBQ	0.0106	5.41	1
11031	123478-HxCDF	70648-26-9	0.190 JB	0.0221	5.41	1
11031	123678-HxCDF	57117-44-9	0.148 JBQ	0.0201	5.41	1
11031	123789-HxCDF	72918-21-9	0.0882 JBQ	0.0268	5.41	1
11031	234678-HxCDF	60851-34-5	0.203 JB	0.0213	5.41	1
11031	1234678-HpCDF	67562-39-4	1.88 JB	0.0141	5.41	1
11031	1234789-HpCDF	55673-89-7	0.158 JBQ	0.0224	5.41	1
11031	OCDF	39001-02-0	4.73 JB	0.0244	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-119-SA5C-SB-6.0-7.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-6.0-7.0

LLI Sample # SW 6132184
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1196 SDG#: DX006-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-119-SA5C-SB-6.0-7.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5C-SB-6.0-7.0

LLI Sample # SW 6132184
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 09:55

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 11/04/2010 08:45

Suite 210

Reported: 12/13/2010 19:21

Chantilly VA 20151

D1196 SDG#: DX006-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10321001	11/20/2010 21:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10321001	11/17/2010 15:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1



Analysis Report

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Sample Description: SL-120-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-4.0-5.0

LLI Sample # SW 6132185
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1204 SDG#: DX006-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified	%	%	%		
11625 Moisture CDM	n.a.	7.4	0.50	0.50	1	

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-4.0-5.0

LLI Sample # SW 6132185
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1204 SDG#: DX006-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0153 JBQ	0.0149	1.08	1
11031	12378-PeCDD	40321-76-4	0.202 JBQ	0.0258	5.40	1
11031	123478-HxCDD	39227-28-6	0.0781 JBQ	0.0253	5.40	1
11031	123678-HxCDD	57653-85-7	0.948 JB	0.0258	5.40	1
11031	123789-HxCDD	19408-74-3	1.27 JB	0.0257	5.40	1
11031	1234678-HpCDD	35822-46-9	5.80 B	0.0265	5.40	1
11031	OCDD	3268-87-9	61.7 B	0.0418	10.8	1
11031	2378-TCDF	51207-31-9	0.0559 JQ	0.0340	1.08	1
11031	12378-PeCDF	57117-41-6	0.379 JB	0.0160	5.40	1
11031	23478-PeCDF	57117-31-4	0.168 JBQ	0.0148	5.40	1
11031	123478-HxCDF	70648-26-9	0.172 JB	0.0272	5.40	1
11031	123678-HxCDF	57117-44-9	0.181 JBQ	0.0255	5.40	1
11031	123789-HxCDF	72918-21-9	1.75 JB	0.0283	5.40	1
11031	234678-HxCDF	60851-34-5	0.217 JB	0.0257	5.40	1
11031	1234678-HpCDF	67562-39-4	1.38 JB	0.0161	5.40	1
11031	1234789-HpCDF	55673-89-7	0.248 JB	0.0219	5.40	1
11031	OCDF	39001-02-0	2.25 JB	0.0201	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	65	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-120-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-4.0-5.0

LLI Sample # SW 6132185
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1204 SDG#: DX006-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-120-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-4.0-5.0

LLI Sample # SW 6132185
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:10

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 11/04/2010 08:45

Suite 210

Reported: 12/13/2010 19:21

Chantilly VA 20151

D1204 SDG#: DX006-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10321001	11/20/2010 22:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10321001	11/17/2010 15:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-120-SA5C-SB-9.0-10.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-9.0-10.0

LLI Sample # SW 6132186
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1209 SDG#: DX006-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified	%	%	%		
11625 Moisture CDM	n.a.	15.3	0.50	0.50	1	

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA5C-SB-9.0-10.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-9.0-10.0

LLI Sample # SW 6132186
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1209 SDG#: DX006-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0178 JBQ	0.0105	1.18	1
11031	12378-PeCDD	40321-76-4	0.0269 JBQ	0.0195	5.90	1
11031	123478-HxCDD	39227-28-6	0.0223 JB	0.0151	5.90	1
11031	123678-HxCDD	57653-85-7	0.0494 JBQ	0.0158	5.90	1
11031	123789-HxCDD	19408-74-3	0.0299 JBQ	0.0151	5.90	1
11031	1234678-HpCDD	35822-46-9	0.389 JB	0.0240	5.90	1
11031	OCDD	3268-87-9	1.97 JB	0.0299	11.8	1
11031	2378-TCDF	51207-31-9	0.0145 U	0.0145	1.18	1
11031	12378-PeCDF	57117-41-6	0.0636 JBQ	0.0119	5.90	1
11031	23478-PeCDF	57117-31-4	0.128 JB	0.0113	5.90	1
11031	123478-HxCDF	70648-26-9	0.144 JB	0.0227	5.90	1
11031	123678-HxCDF	57117-44-9	0.108 JB	0.0213	5.90	1
11031	123789-HxCDF	72918-21-9	0.0744 JBQ	0.0230	5.90	1
11031	234678-HxCDF	60851-34-5	0.149 JB	0.0209	5.90	1
11031	1234678-HpCDF	67562-39-4	0.935 JB	0.0184	5.90	1
11031	1234789-HpCDF	55673-89-7	0.0923 JBQ	0.0247	5.90	1
11031	OCDF	39001-02-0	0.388 JBQ	0.0227	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-120-SA5C-SB-9.0-10.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-9.0-10.0

LLI Sample # SW 6132186
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:15

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1209 SDG#: DX006-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-120-SA5C-SB-9.0-10.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5C-SB-9.0-10.0

LLI Sample # SW 6132186
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 14:15

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 11/04/2010 08:45

Suite 210

Reported: 12/13/2010 19:21

Chantilly VA 20151

D1209 SDG#: DX006-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10321001	11/20/2010 23:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10321001	11/17/2010 15:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-130-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-4.0-5.0

LLI Sample # SW 6132187
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1304 SDG#: DX006-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified	%	%	%		
11625 Moisture CDM	n.a.	11.3	0.50	0.50	1	

*=This limit was used in the evaluation of the final result

Sample Description: SL-130-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-4.0-5.0

LLI Sample # SW 6132187
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1304 SDG#: DX006-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.177 JBQ	0.00947	1.13	1
11031	12378-PeCDD	40321-76-4	0.272 JB	0.0156	5.64	1
11031	123478-HxCDD	39227-28-6	0.119 JBQ	0.0204	5.64	1
11031	123678-HxCDD	57653-85-7	0.254 JBQ	0.0198	5.64	1
11031	123789-HxCDD	19408-74-3	0.273 JBQ	0.0229	5.64	1
11031	1234678-HpCDD	35822-46-9	1.10 JB	0.0276	5.64	1
11031	OCDD	3268-87-9	10.2 JB	0.0262	11.3	1
11031	2378-TCDF	51207-31-9	0.106 J	0.0163	1.13	1
11031	12378-PeCDF	57117-41-6	0.400 JB	0.0110	5.64	1
11031	23478-PeCDF	57117-31-4	0.353 JB	0.0105	5.64	1
11031	123478-HxCDF	70648-26-9	0.251 JB	0.0212	5.64	1
11031	123678-HxCDF	57117-44-9	0.234 JB	0.0196	5.64	1
11031	123789-HxCDF	72918-21-9	0.352 JB	0.0245	5.64	1
11031	234678-HxCDF	60851-34-5	0.286 JB	0.0211	5.64	1
11031	1234678-HpCDF	67562-39-4	0.912 JB	0.0125	5.64	1
11031	1234789-HpCDF	55673-89-7	0.202 JBQ	0.0189	5.64	1
11031	OCDF	39001-02-0	0.735 JB	0.0177	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-130-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-4.0-5.0

LLI Sample # SW 6132187
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1304 SDG#: DX006-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-130-SA5C-SB-4.0-5.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-4.0-5.0

LLI Sample # SW 6132187
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1304 SDG#: DX006-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10321001	11/21/2010 03:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10321001	11/17/2010 15:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1



Analysis Report

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Sample Description: SL-130-SA5C-SB-9.0-10.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-9.0-10.0

LLI Sample # SW 6132188
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1309 SDG#: DX006-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified	%	%	%		
11625 Moisture CDM	n.a.	10.6	0.50	0.50	1	

*=This limit was used in the evaluation of the final result

Sample Description: SL-130-SA5C-SB-9.0-10.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-9.0-10.0

LLI Sample # SW 6132188
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1309 SDG#: DX006-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0217 JBQ	0.0115	1.12	1
11031	12378-PeCDD	40321-76-4	0.114 JB	0.0177	5.59	1
11031	123478-HxCDD	39227-28-6	0.0454 JBQ	0.0178	5.59	1
11031	123678-HxCDD	57653-85-7	0.0531 JB	0.0176	5.59	1
11031	123789-HxCDD	19408-74-3	0.0763 JBQ	0.0180	5.59	1
11031	1234678-HpCDD	35822-46-9	0.491 JBQ	0.0227	5.59	1
11031	OCDD	3268-87-9	2.82 JB	0.0253	11.2	1
11031	2378-TCDF	51207-31-9	0.0273 JQ	0.0162	1.12	1
11031	12378-PeCDF	57117-41-6	0.132 JBQ	0.0105	5.59	1
11031	23478-PeCDF	57117-31-4	0.159 JB	0.0105	5.59	1
11031	123478-HxCDF	70648-26-9	0.157 JBQ	0.0208	5.59	1
11031	123678-HxCDF	57117-44-9	0.128 JB	0.0197	5.59	1
11031	123789-HxCDF	72918-21-9	0.106 JB	0.0214	5.59	1
11031	234678-HxCDF	60851-34-5	0.218 JB	0.0194	5.59	1
11031	1234678-HpCDF	67562-39-4	0.887 JB	0.0104	5.59	1
11031	1234789-HpCDF	55673-89-7	0.102 JBQ	0.0154	5.59	1
11031	OCDF	39001-02-0	0.515 JBQ	0.0187	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	47	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	66	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-130-SA5C-SB-9.0-10.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-9.0-10.0

LLI Sample # SW 6132188
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/04/2010 08:45

Reported: 12/13/2010 19:21

D1309 SDG#: DX006-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-130-SA5C-SB-9.0-10.0 Grab Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5C-SB-9.0-10.0

LLI Sample # SW 6132188
LLI Group # 1219744
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2010 15:55

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 11/04/2010 08:45

Suite 210

Reported: 12/13/2010 19:21

Chantilly VA 20151

D1309 SDG#: DX006-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10321001	11/21/2010 04:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10321001	11/17/2010 15:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10309162402A	11/05/2010 10:10	William C Schwebel	1

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/13/10 at 07:21 PM

Group Number: 1219744

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10309162402A Moisture CDM	Sample number(s): 6132181-6132188				100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10321001	Sample number(s): 6132181-6132188								
2378-TCDD	0.0129 J	0.00980	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0247 J	0.0138	5.00	ng/kg	94		70-142		
123478-HxCDD	0.0532 J	0.0124	5.00	ng/kg	98		70-164		
123678-HxCDD	0.0310 J	0.0120	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0537 J	0.0132	5.00	ng/kg	96		64-162		
1234678-HpCDD	0.283 J	0.0167	5.00	ng/kg	96		70-140		
OCDD	0.512 J	0.0160	10.0	ng/kg	96		78-144		
2378-TCDF	0.0158 U	0.0158	1.00	ng/kg	100		75-158		
12378-PeCDF	0.0521 J	0.0116	5.00	ng/kg	95		80-134		
23478-PeCDF	0.144 J	0.00920	5.00	ng/kg	95		68-160		
123478-HxCDF	0.185 J	0.0188	5.00	ng/kg	94		72-134		
123678-HxCDF	0.103 J	0.0171	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0890 J	0.0195	5.00	ng/kg	97		78-130		
234678-HxCDF	0.167 J	0.0168	5.00	ng/kg	95		70-156		
1234678-HpCDF	0.756 J	0.00950	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0968 J	0.0135	5.00	ng/kg	98		78-138		
OCDF	0.451 J	0.0177	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 10309162402A Moisture CDM	Sample number(s): 6132181-6132188				BKG: P130713	11.2	10.7	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Dioxins/Furans in Solids-HRMS

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/13/10 at 07:21 PM

Group Number: 1219744

Surrogate Quality Control

Batch number: 10321001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6132181	62	69	61	64	63	65
6132182	68	86	75	76	74	73
6132183	75	83	74	74	74	78
6132184	67	89	65	67	66	59
6132185	63	73	62	63	64	68
6132186	68	73	63	65	66	67
6132187	78	87	70	73	71	70
6132188	60	73	60	63	63	65
Blank	67	78	71	74	79	77
OPR	51	65	58	65	57	45
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6132181	71	56	48	68	71	65
6132182	80	65	54	77	89	78
6132183	73	64	55	81	83	78
6132184	71	50	40	74	92	69
6132185	68	57	48	65	75	66
6132186	66	57	47	75	74	68
6132187	74	57	50	82	89	74
6132188	64	53	42	66	75	64
Blank	86	71	62	72	80	82
OPR	74	44	36	56	75	67
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6132181	67	67	66	57	57	70
6132182	77	76	74	64	66	85
6132183	74	74	70	61	72	86
6132184	69	68	64	53	64	90
6132185	65	67	66	56	59	75
6132186	65	68	64	54	64	73
6132187	73	70	68	60	70	90
6132188	64	65	59	47	56	77
Blank	82	81	81	71	62	71
OPR	65	63	62	50	45	69
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

acct #13013 Csp #1219744 Sample # 6132181-88

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						CHAIN OF CUSTODY RECORD																		Other Instructions and Notes		
NOTES: *Primary Analyses as Indicated on sample labels **Secondary Analyses as Indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP						VOCs/EPA 8260B	1,4-Dioxane EPA 8260S/M	SVOCs EPA 8270C & PAHs 8270 S/M	TPH g/mo/d EPA 8015B	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**NDMA EPA 1625C	**Energetics EPA 8350A		**Cyanide EPA 9012B	**pH EPA 9045C
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																					
SL-118-SA5C-SB-4.5	11.03.10	1145	soil	none	4 - Encore samplers	X	X																			
SL-118-SA5C-SB-4.0-5.0	11.03.10	1150	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X	X											
SL-118-SA5C-SB-9.0-10.0	11.03.10	1155	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X												
SL-119-SA5C-SB-4.5	11.03.10	0945	soil	none	4 - Encore samplers	X	X																			
SL-119-SA5C-SB-4.0-5.0	11.03.10	0950	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X												
SL-119-SA5C-SB-6.0-7.0	11.03.10	0955	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X												
SL-120-SA5C-SB-4.5	11.03.10	1405	soil	none	4 - Encore samplers	X	X																			
SL-120-SA5C-SB-4.0-5.0	11.03.10	1410	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X												
SL-120-SA5C-SB-9.0-10.0	11.03.10	1415	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X												
SL-130-SA5C-SB-4.5	11.03.10	1550	soil	none	4 - Encore samplers	X	X																			
SL-130-SA5C-SB-4.0-5.0	11.03.10	1545	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X												
SL-130-SA5C-SB-9.0-10.0	11.03.10	1555	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X												
TB-110310	11.03.10	1630	water	HCl	3 - 40 ml VOA vials	X	X																		Trip blank	
Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)		Date/Time	Relinquished by: (Signature)		Date/Time	Received for Laboratory by: (Signature)		Date/Time	Laboratory:															
	11.03.10 1630									11/4/10	Lancaster Laboratories, Inc.															
Received by: (Signature)	Date/Time	Received by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Airbill No.		895																
Fed Ex																										

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 13, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/05/2010

Group Number: 1219879

SDG: DX006

PO Number: 1203-004-007-AL

Release Number: TRACKING #11667

State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-131-SA5C-SB-4.0-5.0 Soil	6132738
SL-131-SA5C-SB-8.5-9.5 Soil	6132739
SL-132-SA5C-SB-4.0-5.0 Soil	6132740
SL-133-SA5C-SB-4.0-5.0 Soil	6132741
SL-133-SA5C-SB-8.0-9.0 Soil	6132742
SL-134-SA5C-SB-4.0-5.0 Soil	6132743

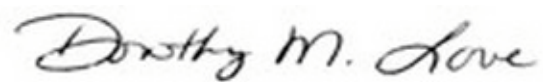
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program
COPY TO
1 COPY TO Data Package Group

Attn: Todd Burgess

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Dorothy M. Love
Group Leader



Analysis Report

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Page 1 of 4

Sample Description: SL-131-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-4.0-5.0

LLI Sample # SW 6132738
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1314 SDG#: DX006-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified	%	%	%		
11625 Moisture CDM	n.a.	5.0	0.50	0.50	1	

*=This limit was used in the evaluation of the final result

Sample Description: SL-131-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-4.0-5.0

LLI Sample # SW 6132738
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1314 SDG#: DX006-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0191 JBQ	0.0122	1.05	1
11031	12378-PeCDD	40321-76-4	0.186 JB	0.0315	5.26	1
11031	123478-HxCDD	39227-28-6	0.221 JBQ	0.0286	5.26	1
11031	123678-HxCDD	57653-85-7	1.44 JB	0.0295	5.26	1
11031	123789-HxCDD	19408-74-3	1.14 JB	0.0300	5.26	1
11031	1234678-HpCDD	35822-46-9	26.1 B	0.0458	5.26	1
11031	OCDD	3268-87-9	254 B	0.0675	10.5	1
11031	2378-TCDF	51207-31-9	0.0806 J	0.0300	1.05	1
11031	12378-PeCDF	57117-41-6	0.235 JBQ	0.0154	5.26	1
11031	23478-PeCDF	57117-31-4	0.149 JB	0.0140	5.26	1
11031	123478-HxCDF	70648-26-9	0.177 JBQ	0.0235	5.26	1
11031	123678-HxCDF	57117-44-9	0.212 JB	0.0216	5.26	1
11031	123789-HxCDF	72918-21-9	0.970 JBQ	0.0260	5.26	1
11031	234678-HxCDF	60851-34-5	0.267 JB	0.0223	5.26	1
11031	1234678-HpCDF	67562-39-4	3.42 JB	0.0227	5.26	1
11031	1234789-HpCDF	55673-89-7	0.510 JB	0.0298	5.26	1
11031	OCDF	39001-02-0	7.83 JB	0.0191	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-131-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-4.0-5.0

LLI Sample # SW 6132738
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1314 SDG#: DX006-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-131-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-4.0-5.0

LLI Sample # SW 6132738
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:05

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 11/05/2010 09:00

Suite 210

Reported: 12/13/2010 19:25

Chantilly VA 20151

D1314 SDG#: DX006-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10321001	11/21/2010 05:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10321001	11/17/2010 15:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-131-SA5C-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-8.5-9.5

LLI Sample # SW 6132739
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1318 SDG#: DX006-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified	%	%	%		
11625 Moisture CDM	n.a.	5.1	0.50	0.50	1	

*=This limit was used in the evaluation of the final result

Sample Description: SL-131-SA5C-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-8.5-9.5

LLI Sample # SW 6132739
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1318 SDG#: DX006-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0158 U	0.0158	1.05	1
11031	12378-PeCDD	40321-76-4	0.103 JB	0.0256	5.27	1
11031	123478-HxCDD	39227-28-6	0.160 JBQ	0.0306	5.27	1
11031	123678-HxCDD	57653-85-7	0.573 JB	0.0299	5.27	1
11031	123789-HxCDD	19408-74-3	0.346 JBQ	0.0310	5.27	1
11031	1234678-HpCDD	35822-46-9	16.8 B	0.0475	5.27	1
11031	OCDD	3268-87-9	160 B	0.0773	10.5	1
11031	2378-TCDF	51207-31-9	0.0281 U	0.0281	1.05	1
11031	12378-PeCDF	57117-41-6	0.104 JB	0.0151	5.27	1
11031	23478-PeCDF	57117-31-4	0.123 JBQ	0.0137	5.27	1
11031	123478-HxCDF	70648-26-9	0.122 JBQ	0.0247	5.27	1
11031	123678-HxCDF	57117-44-9	0.116 JBQ	0.0231	5.27	1
11031	123789-HxCDF	72918-21-9	0.0727 JBQ	0.0308	5.27	1
11031	234678-HxCDF	60851-34-5	0.203 JB	0.0241	5.27	1
11031	1234678-HpCDF	67562-39-4	2.34 JB	0.0213	5.27	1
11031	1234789-HpCDF	55673-89-7	0.313 JB	0.0302	5.27	1
11031	OCDF	39001-02-0	5.69 JB	0.0247	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration



Analysis Report

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Page 3 of 4

Sample Description: SL-131-SA5C-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-8.5-9.5

LLI Sample # SW 6132739
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1318 SDG#: DX006-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

*=This limit was used in the evaluation of the final result

Sample Description: SL-131-SA5C-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5C-SB-8.5-9.5

LLI Sample # SW 6132739
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 11:10

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 11/05/2010 09:00

Suite 210

Reported: 12/13/2010 19:25

Chantilly VA 20151

D1318 SDG#: DX006-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10321001	11/21/2010 06:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10321001	11/17/2010 15:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-132-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5C-SB-4.0-5.0

LLI Sample # SW 6132740
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1324 SDG#: DX006-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified	%	%	%		
11625 Moisture CDM	n.a.	11.4	0.50	0.50	1	

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5C-SB-4.0-5.0

LLI Sample # SW 6132740
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1324 SDG#: DX006-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0250 JBQ	0.0123	1.13	1
11031	12378-PeCDD	40321-76-4	0.0181 U	0.0181	5.64	1
11031	123478-HxCDD	39227-28-6	0.0225 JBQ	0.0190	5.64	1
11031	123678-HxCDD	57653-85-7	0.0584 JBQ	0.0188	5.64	1
11031	123789-HxCDD	19408-74-3	0.0772 JB	0.0192	5.64	1
11031	1234678-HpCDD	35822-46-9	1.16 JB	0.0265	5.64	1
11031	OCDD	3268-87-9	11.9 B	0.0433	11.3	1
11031	2378-TCDF	51207-31-9	0.0221 JQ	0.0174	1.13	1
11031	12378-PeCDF	57117-41-6	0.0109 U	0.0109	5.64	1
11031	23478-PeCDF	57117-31-4	0.0544 JBQ	0.0103	5.64	1
11031	123478-HxCDF	70648-26-9	0.0579 JBQ	0.0181	5.64	1
11031	123678-HxCDF	57117-44-9	0.0529 JB	0.0167	5.64	1
11031	123789-HxCDF	72918-21-9	0.0818 JBQ	0.0192	5.64	1
11031	234678-HxCDF	60851-34-5	0.0780 JBQ	0.0170	5.64	1
11031	1234678-HpCDF	67562-39-4	0.444 JB	0.0139	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0585 JBQ	0.0190	5.64	1
11031	OCDF	39001-02-0	0.388 JBQ	0.0237	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-132-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5C-SB-4.0-5.0

LLI Sample # SW 6132740
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1324 SDG#: DX006-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					



Analysis Report

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Page 4 of 4

Sample Description: SL-132-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5C-SB-4.0-5.0

LLI Sample # SW 6132740
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 09:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1324 SDG#: DX006-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10321001	11/21/2010 07:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10321001	11/17/2010 15:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 4

Sample Description: SL-133-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-4.0-5.0

LLI Sample # SW 6132741
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1334 SDG#: DX006-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified		%	%	%	
11625	Moisture CDM	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-4.0-5.0

LLI Sample # SW 6132741
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1334 SDG#: DX006-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0105 U	0.0105	1.13	1
11031	12378-PeCDD	40321-76-4	0.0896 JBQ	0.0202	5.65	1
11031	123478-HxCDD	39227-28-6	0.0565 JB	0.0218	5.65	1
11031	123678-HxCDD	57653-85-7	0.620 JB	0.0220	5.65	1
11031	123789-HxCDD	19408-74-3	0.801 JB	0.0228	5.65	1
11031	1234678-HpCDD	35822-46-9	4.92 JB	0.0276	5.65	1
11031	OCDD	3268-87-9	48.6 B	0.0432	11.3	1
11031	2378-TCDF	51207-31-9	0.0262 JQ	0.0201	1.13	1
11031	12378-PeCDF	57117-41-6	0.158 JB	0.0102	5.65	1
11031	23478-PeCDF	57117-31-4	0.0618 JBQ	0.00904	5.65	1
11031	123478-HxCDF	70648-26-9	0.0634 JB	0.0183	5.65	1
11031	123678-HxCDF	57117-44-9	0.0746 JBQ	0.0167	5.65	1
11031	123789-HxCDF	72918-21-9	0.902 JB	0.0207	5.65	1
11031	234678-HxCDF	60851-34-5	0.110 JBQ	0.0180	5.65	1
11031	1234678-HpCDF	67562-39-4	0.824 JB	0.0132	5.65	1
11031	1234789-HpCDF	55673-89-7	0.135 JBQ	0.0192	5.65	1
11031	OCDF	39001-02-0	1.46 JB	0.0176	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-133-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-4.0-5.0

LLI Sample # SW 6132741
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:05

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14420 Albemarle Point Place
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Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1334 SDG#: DX006-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-133-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-4.0-5.0

LLI Sample # SW 6132741
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:05

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1334 SDG#: DX006-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10321001	11/21/2010 08:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10321001	11/17/2010 15:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1



Analysis Report

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Page 1 of 4

Sample Description: SL-133-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-8.0-9.0

LLI Sample # SW 6132742
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1338 SDG#: DX006-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified	%	%	%		
11625 Moisture CDM	n.a.	4.8	0.50	0.50	1	

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-8.0-9.0

LLI Sample # SW 6132742
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1338 SDG#: DX006-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0152 JBQ	0.0134	1.05	1
11031	12378-PeCDD	40321-76-4	0.0245 JBQ	0.0168	5.25	1
11031	123478-HxCDD	39227-28-6	0.0129 U	0.0129	5.25	1
11031	123678-HxCDD	57653-85-7	0.0309 JB	0.0132	5.25	1
11031	123789-HxCDD	19408-74-3	0.0436 JBQ	0.0134	5.25	1
11031	1234678-HpCDD	35822-46-9	0.593 JB	0.0234	5.25	1
11031	OCDD	3268-87-9	4.73 JB	0.0285	10.5	1
11031	2378-TCDF	51207-31-9	0.0122 JQ	0.0119	1.05	1
11031	12378-PeCDF	57117-41-6	0.0206 JBQ	0.00767	5.25	1
11031	23478-PeCDF	57117-31-4	0.0549 JB	0.00746	5.25	1
11031	123478-HxCDF	70648-26-9	0.0489 JB	0.0123	5.25	1
11031	123678-HxCDF	57117-44-9	0.0401 JBQ	0.0114	5.25	1
11031	123789-HxCDF	72918-21-9	0.0291 JBQ	0.0143	5.25	1
11031	234678-HxCDF	60851-34-5	0.0610 JBQ	0.0122	5.25	1
11031	1234678-HpCDF	67562-39-4	0.290 JB	0.00966	5.25	1
11031	1234789-HpCDF	55673-89-7	0.0518 JBQ	0.0157	5.25	1
11031	OCDF	39001-02-0	0.293 JB	0.0185	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-133-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-8.0-9.0

LLI Sample # SW 6132742
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1338 SDG#: DX006-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-133-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5C-SB-8.0-9.0

LLI Sample # SW 6132742
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 14:10

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 11/05/2010 09:00

Suite 210

Reported: 12/13/2010 19:25

Chantilly VA 20151

D1338 SDG#: DX006-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10321001	11/21/2010 09:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10321001	11/17/2010 15:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1



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Page 1 of 4

Sample Description: SL-134-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5C-SB-4.0-5.0

LLI Sample # SW 6132743
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1344 SDG#: DX006-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	EPA 160.3 modified		%	%	%	
11625	Moisture CDM	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-134-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5C-SB-4.0-5.0

LLI Sample # SW 6132743
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1344 SDG#: DX006-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans		EPA 1613B	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0364 JBQ	0.0115	1.12	1
11031	12378-PeCDD	40321-76-4	0.0685 JB	0.0219	5.62	1
11031	123478-HxCDD	39227-28-6	0.0257 JBQ	0.0137	5.62	1
11031	123678-HxCDD	57653-85-7	0.0681 JBQ	0.0142	5.62	1
11031	123789-HxCDD	19408-74-3	0.100 JB	0.0139	5.62	1
11031	1234678-HpCDD	35822-46-9	0.416 JBQ	0.0231	5.62	1
11031	OCDD	3268-87-9	2.25 JB	0.0284	11.2	1
11031	2378-TCDF	51207-31-9	0.0126 U	0.0126	1.12	1
11031	12378-PeCDF	57117-41-6	0.0673 JBQ	0.00854	5.62	1
11031	23478-PeCDF	57117-31-4	0.108 JBQ	0.00876	5.62	1
11031	123478-HxCDF	70648-26-9	0.0996 JBQ	0.0152	5.62	1
11031	123678-HxCDF	57117-44-9	0.0681 JB	0.0131	5.62	1
11031	123789-HxCDF	72918-21-9	0.196 JB	0.0185	5.62	1
11031	234678-HxCDF	60851-34-5	0.0889 JB	0.0138	5.62	1
11031	1234678-HpCDF	67562-39-4	0.319 JB	0.0116	5.62	1
11031	1234789-HpCDF	55673-89-7	0.161 JB	0.0218	5.62	1
11031	OCDF	39001-02-0	0.368 JB	0.0262	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	47	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	42	26 - 138
13C12-OCDF	31	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

Sample Description: SL-134-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5C-SB-4.0-5.0

LLI Sample # SW 6132743
LLI Group # 1219879
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2010 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1344 SDG#: DX006-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

Sample Description: SL-134-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5C-SB-4.0-5.0

LLI Sample # SW 6132743
LLI Group # 1219879
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

Submitted: 11/05/2010 09:00

Reported: 12/13/2010 19:25

D1344 SDG#: DX006-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	10321001	11/21/2010 14:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	10321001	11/17/2010 15:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	10314162401A	11/11/2010 05:21	William C Schwebel	1

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/13/10 at 07:25 PM

Group Number: 1219879

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10314162401A Moisture CDM	Sample number(s): 6132738-6132743				100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10321001	Sample number(s): 6132738-6132743								
2378-TCDD	0.0129 J	0.00980	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0247 J	0.0138	5.00	ng/kg	94		70-142		
123478-HxCDD	0.0532 J	0.0124	5.00	ng/kg	98		70-164		
123678-HxCDD	0.0310 J	0.0120	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0537 J	0.0132	5.00	ng/kg	96		64-162		
1234678-HpCDD	0.283 J	0.0167	5.00	ng/kg	96		70-140		
OCDD	0.512 J	0.0160	10.0	ng/kg	96		78-144		
2378-TCDF	0.0158 U	0.0158	1.00	ng/kg	100		75-158		
12378-PeCDF	0.0521 J	0.0116	5.00	ng/kg	95		80-134		
23478-PeCDF	0.144 J	0.00920	5.00	ng/kg	95		68-160		
123478-HxCDF	0.185 J	0.0188	5.00	ng/kg	94		72-134		
123678-HxCDF	0.103 J	0.0171	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0890 J	0.0195	5.00	ng/kg	97		78-130		
234678-HxCDF	0.167 J	0.0168	5.00	ng/kg	95		70-156		
1234678-HpCDF	0.756 J	0.00950	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0968 J	0.0135	5.00	ng/kg	98		78-138		
OCDF	0.451 J	0.0177	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 10314162401A Moisture CDM	Sample number(s): 6132738-6132743					BKG: P133892 8.9	9.4	6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Dioxins/Furans in Solids-HRMS

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/13/10 at 07:25 PM

Group Number: 1219879

Surrogate Quality Control

Batch number: 10321001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6132738	68	81	70	71	71	71
6132739	68	80	69	72	71	64
6132740	64	74	62	66	65	64
6132741	71	82	69	73	71	70
6132742	66	80	68	72	69	68
6132743	72	79	59	65	61	51
Blank	67	78	71	74	79	77
OPR	51	65	58	65	57	45

Limits: 25-164 21-178 26-152 26-123 28-136 29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6132738	72	62	51	73	83	72
6132739	76	61	54	76	83	73
6132740	66	56	46	72	75	66
6132741	76	62	51	79	86	73
6132742	77	57	48	75	84	72
6132743	68	42	31	80	86	68
Blank	86	71	62	72	80	82
OPR	74	44	36	56	75	67

Limits: 28-143 26-138 17-157 35-197 25-181 32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6132738	74	74	70	58	64	80
6132739	73	74	69	61	69	79
6132740	66	67	61	53	64	72
6132741	73	75	71	62	68	81
6132742	72	72	70	60	65	86
6132743	65	66	59	47	67	80
Blank	82	81	81	71	62	71
OPR	65	63	62	50	45	69

Limits: 28-130 28-130 23-140 17-157 24-169 24-185

*- Outside of specification

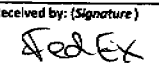
** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

6132738-43

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						LABORATORY USE RECORD																		Other Instructions and Notes			
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP						VOCs/EPA 8260B	1,4-Dioxane EPA 8260S/M	SVOCs EPA 8270C & PAHs 8270 S/M	TPH g/mc/d EPA 8015B	*Metals EPA 6010/(6020B&7471A	*Hex Chrome EPA 7199*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A		**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015B
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-131-SA5C-SB-4.5	11.04.10	1100	soil	none	4 - Encore samplers	X	X																				
SL-131-SA5C-SB-4.0-5.0	11.04.10	1105	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X													
SL-131-SA5C-SB-8.5-9.5	11.04.10	1110	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X													
SL-132-SA5C-SB-4.5	11.04.10	0920	soil	none	4 - Encore samplers	X	X																				
SL-132-SA5C-SB-4.0-5.0	11.04.10	0925	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X													
SL-133-SA5C-SB-4.5	11.04.10	1400	soil	none	4 - Encore samplers	X	X																				
SL-133-SA5C-SB-4.0-5.0	11.04.10	1405	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X													
SL-133-SA5C-SB-8.0-9.0	11.04.10	1410	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X													
SL-134-SA5C-SB-4.5	11.04.10	1530	soil	none	4 - Encore samplers	X	X																				
SL-134-SA5C-SB-4.0-5.0	11.04.10	1535	soil	none	2 - 16 oz jars			X	X	X	X	X	X	X	X												
TB-110410	11.04.10	1630	water	HCl	3 - 40 ml VOA vials	X	X																				
																											Trip blank
PB 11.04.10																											
Relinquished by: (Signature)						Date/Time		Relinquished by: (Signature)		Date/Time		Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Laboratory:									
						11.04.10 1630												Lancaster Laboratories, Inc.									
Received by: (Signature)						Date/Time		Received by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Airbill No.											
														4/5/10 900		③ N1111910											